ELECTRICAL CATALOGUE

WIRE TERMINATION ■ TOOLS & SUPPLIES
POWER TOOL ACCESSORIES ■ TEST & MEASUREMENT
NETWORK TOOLS & TESTERS

IDEAL INDUSTRIES NETWORKS DIVISION
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VISION. PERFORMANCE. SERVICE.

SINCE 1916

FOUNDATION FOR FUTURE GROWTH

J. Walter Becker founded IDEAL in 1916 and made a promise that is still an important part of the way IDEAL operates today: "An IDEAL product will provide a value greater than the price paid for it. Service is a part of the product." Becker's founding principle represents our everyday commitment to you. It's the driving force behind our partnerships with the world's leading distributors, a state of the art delivery system, outstanding customer and technical support and variety of operational benefits designed to save time and money.

It means we're proud of the way we do business.

IDEAL's headquarters are located in Sycamore, Illinois with European operations in the UK, Germany and France.

Product innovation, performance, ease-of-use and safety have been at the heart of IDEAL since the beginning. As we approach our 100th anniversary, we are focused on continuing our success through several initiatives.

First, an aggressive growth plan through acquisitions; second, expansion into alternative energy markets; third, through geographical expansion.

WESTERN FORGE

PRATT-READ® Tools, LLC
A Subsidiary of IDEAL INDUSTRIES, INC.

S•K®

Growth Through Acquisitions

Electrical connectors have been at the heart of IDEAL's business for more than seven decades. Constant innovation in new connection technologies has positioned IDEAL as one of the world's leading manufacturers producing billions of wire connectors every year. Wire connectors remain a core part of IDEAL's business strategy, however expansion into other product categories and markets offers up the opportunity for significant future growth.

The recent acquisition of 3 US companies, **Western Forge,** based in Colorado Springs, **Pratt-Read Tools, LLC,** based in Sycamore, Pennsylvania and Colorado Springs and **S•K Hand Tools, LLC**, based in Sycamore now positions IDEAL as one of the largest tool manufacturers in the US.

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Connectors designed for every application

Twister® Wire Connectors

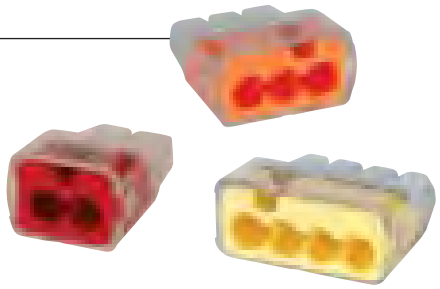
Accommodating the majority of common wiring configurations from 0.5mm² - 10.0 mm², the ribbed cap provides a secure grip and swept wings offer extra leverage. A patented square-wire spring provides safe, secure connections. Conforming to BS EN 60998 Twister® wire connectors fully comply with BS 7671:2008 (17th Edition Wiring Regulations).

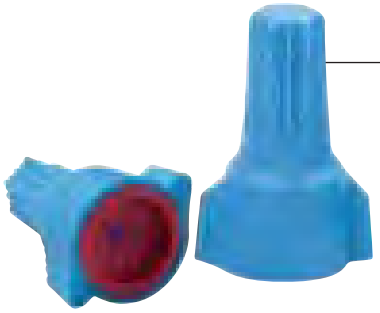
A cost-effective and flexible solution, Twister® connectors are rated up to 57 Amps, will accept solid and stranded wire and have the added advantage of being re-usable, making them the obvious alternative to terminal blocks.

In-Sure™ Push-In Wire Connectors

The fastest, easiest, push-in connector on the market, the In-Sure™ push-in wire connector can reduce installation time by up to 50% compared to more traditional connection methods. Our 2, 3 & 4 port connectors are uniquely rated to 32 Amps making them suitable for a broad range of wiring applications.

Classified as Maintenance Free, In-Sure™ connectors are the perfect replacement for crimped splices. Conforming to BS EN 60998 In-Sure™ wire connectors fully comply with BS 7671:2008 (17th Edition Wiring Regulations).





WeatherProof™ Wire Connectors

Connected and Protected in one easy step. Designed specifically for above ground, interior/exterior connections exposed to damp/wet and corrosive environments. Each connector is pre-filled with 100% silicone-based sealant which gives them their IP55 rating. Several models handle a variety of wire sizes from 1.5mm² - 4.0mm², making them ideal for use in gardens, garages and patio areas, as well as in commercial and industrial environments.

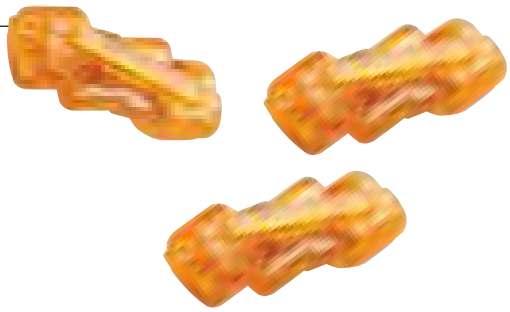
Conforming to BS EN 60998 WeatherProof™ wire connectors fully comply with BS 7671:2008 (17th Edition Wiring Regulations).

SpliceLine™ Wire Connectors

SpliceLine™, a revolutionary in-line wire connector. Utilising patented push-in technology, the unique design provides a crimp-free, solder-less butt splice making applications easier and faster. The 2-port model supports a wide range of either stranded or solid wires, allowing one connector to cover the same wire range as multiple butt splices.

The end-to-end connection of SpliceLine™ is a great solution for today's pre-fab operations and also makes it perfect for lengthening short wires in tight spaces. It easily passes through standard knock-outs and the transparent polycarbonate allows for visual inspection, assuring a secure connection every time.

Classified as Maintenance Free as per BS 7671:2008, SpliceLine™ is set to change the way you join wires.



WIRE TERMINATION

A

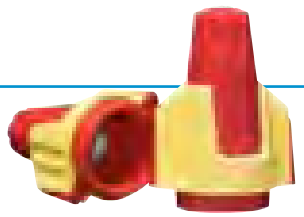
Twister® Wire Connectors

- BS 7671:2008 (17th Edition) Compliant
- Exceptional wire-range capacity – three colour-coded models handle wire combinations from as small as 0.5 mm² to as large as 10.0 mm²
- Accept solid and stranded wire
- Ribbed cap provides a secure grip and fast fingertip starts
- Swept wings offer extra leverage and less effort for large wire combinations
- Flame retardant shell
- Hexagonal shape accommodates standard nutdriver for tool installation
- Live-action, square-wire spring locks onto wire for safe, secure connections
- Deep skirt helps protect against flash-over and turned-back strands for maximum dielectric protection
- Reusable
- Cost effective replacement for terminal blocks
- Conform to EN 60998-1:2004, EN 60998-2-4:2005 connecting device standards

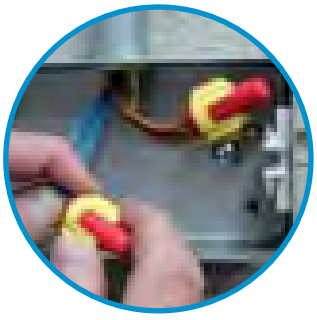
Model	Colour	Wire Combination Range (mm)	Quantity	Cat. No.
340®	Lt. Blue	32A / 450V 0.5mm² to 4.0mm² Min. 2 x 0.5mm² Max. 2 x 4.0mm²	Box of 100	**30-340**
			Jar of 500	**30-640J**
341®	Tan	41A / 600V 0.5mm² to 6.0mm² Min. 3 x 0.5mm² Max. 2 x 6.0mm²	Box of 100	**30-341**
			Jar of 400	**30-441J**
342®	Grey	57A / 600V 2.5mm² to 10.0mm² Min. 3 x 2.5mm² Max. 2 x 10.0mm²	Box of 50	**30-342**

UL Wire Connector 774A LISTED Cu/Cu Only CSA® CE

Twister® PRO Wire Connectors



- BS 7671:2008 (17th Edition) Compliant
- Exceptional wire range and capacity; up to max. 4 x 4.0 mm²
- SureGrip™ overmoulding provides better grip for improved leverage, more torque and faster connections
- Accept solid & stranded wire
- Re-usable
- Comfortable swept wings designed to help reduce hand fatigue
- Expanding square-wire spring provides a secure connection every time
- Tough, UL 94V-2 flame-retardant shell rated at 105°C (221°F)
- Conform to EN 60998-1:2004, EN 60998-2-4:2005 connecting device standards

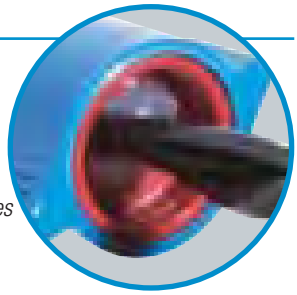


Model	Colour	Wire Combination Range (mm)	Quantity	Cat. No.
344®	Red/Yellow	32A / 600V 0.5mm² to 4.0mm² Min. 3 x 0.5mm² Max. 4 x 4.0mm²	Box of 50	**30-144**
			Jar of 250	**30-244J**
			Jar of 500	**30-644J**

UL Wire Connector 774A LISTED Cu/Cu Only CSA® CE

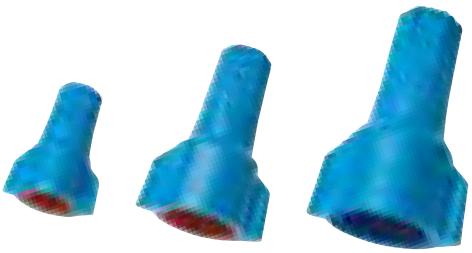
WeatherProof™ Wire Connectors

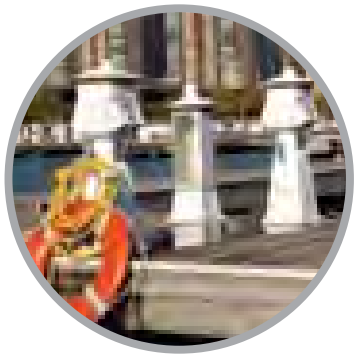
- BS 7671:2008 (17th Edition) Compliant
- Silicone-based sealant protects against moisture and corrosion
- IP55 rated for use in damp/wet locations
- Easy to apply, pre-filled twist-on wire connectors
- Accept solid and stranded wire
- Handle wire sizes from 1.5mm² to 4.0mm² copper conductors
- Tough, UL 94V-2 flame-retardant shell rated at 105°C (221°F)
- Conform to EN 60998-1:2004, EN 60998-2-4:2005 connecting device standards



The silicone-based sealant protects electrical connections against harsh conditions, eliminating the need for heat-shrink or water-proof enclosures in many applications.

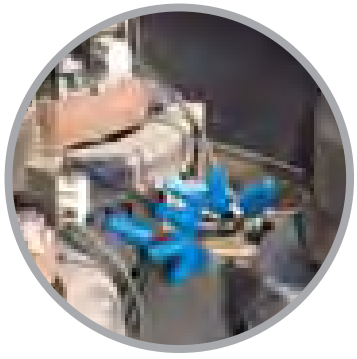
WeatherProof™ – suitable for interior and exterior electrical connections exposed to rain or damp conditions.





WeatherProof™ Wire Connectors

Model	Colour	Wire Combination Range (mm²)	Quantity	Cat. No.
61	Blue/Orange	24A / 450V / IP55 1.5mm² to 2.5mm² Min. 1 x 1.5mm² Max. 2 x 2.5mm²	Card of 25	**30-161**
			Box of 100	**30-261**
62	Blue/Red	32A / 450V / IP55 1.5mm² to 4.0mm² Min. 2 x 1.5mm² Max. 4 x 4.0mm²	Card of 20	**30-162**
			Box of 100	**30-262**
63	Blue/Dr. Blue	32A / 450V / IP55 2.5mm² to 4.0mm² Min. 3 x 2.5mm² Max. 6 x 4.0mm²	Card of 15	**30-163**
			Box of 100	**30-263**



LISTED Sealed Wire Connector System 5N35 Cu/Cu Only

Twister® & WeatherProof™ Kits

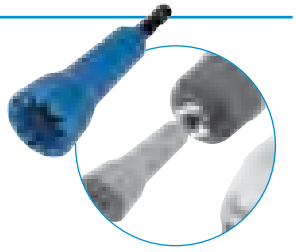
Ordering Information

Model	Description	Qty.	Cat. No.
	Twister® & WeatherProof™ Connector Premium Kit	40 x Model 340® 40 x Model 341® 25 x Model 342® 25 x Model 344® 20 x Model 61 12 x Model 62 12 x Model 63	**30-5000EU**
	Twister® & WeatherProof™ Connector Starter Kit	30 x Model 340® 30 x Model 341® 15 x Model 344® 15 x Model 62	**30-5001EU**

LISTED Sealed Wire Connector System 5N35 Cu/Cu Only

Spin-Twist® Wire Connector Socket

- Speeds installation of IDEAL Wire Connectors
- For use with electric corded or cordless drill drivers
- 1/4 in. chuck fits most drills or drive sockets



Description	Cat. No.
Compatible with Twister® and WeatherProof™ Connectors	**30-902**

In-Sure™ Push-In Wire Connectors

- BS 7671:2008 (17th Edition) Compliant
- Fits any combination of 0.75mm² -4.0mm² solid / 1.5mm² - 2.5mm² copper wire or tin bonded stranded wire
- 32 Amp rating on 2, 3 and 4 port models
- High quality, secure connections
- Clear shell gives visual verification of connection
- Ergonomic design for easy grip and comfort
- Low insertion force for fast connections
- Continuity test port
- Colour coded for easy identification
- Maintenance Free
- Conform to EN 60998-1 and EN 60998-2-2 connecting device standards

Specifications

	Wire Type	Model 32 Red 2-Port	Model 33 Orange 3-Port	Model 34 Yellow 4-Port	Model 87 Grey 5-Port	Model 88 Blue 6-Port Stacked	Model 90 Black 8-Port
Wire Combination Range	Solid	0.75mm² to 4.0mm²			0.75mm² to 4.0mm²		
	Stranded*	1.5mm² to 2.5mm²			1.5mm² to 2.5mm²		

* Stranded wire is limited to ≤ 7 strands

Ordering Information

Model	Colour	Ports	Length		Width		Height		Quantity	Cat. No.
			In.	mm	In.	mm	in.	mm		
32	Red	2	0.78	19.81	0.52	13.21	0.38	9.65	Box of 100	**30-1032**
33	Orange	3	0.78	19.81	0.69	17.53	0.38	9.65	Box of 100	**30-1033**
34	Yellow	4	0.78	19.81	0.82	20.83	0.38	9.65	Box of 100	**30-1034**
87	Gray	5	.355	9.02	.907	23.03	.729	18.52	Box of 50	**30-087**
88	Blue	6 Stacked	.607	15.42	.603	15.32	.729	18.52	Box of 50	**30-088**
90	Black	8	.355	9.02	1.38	35.03	.717	18.21	Box of 50	**30-090**

COPPER TO COPPER ONLY. Do not use on aluminum.
Temperature rating: 105°C (221°F) maximum

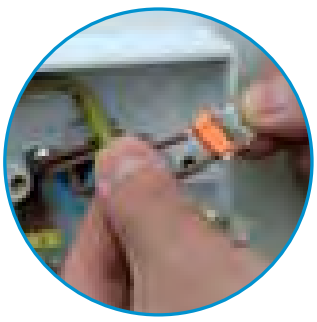
MF UL Wire Connector 774A LISTED Cu/Cu Only CSA CE

In-Sure™ Push-In Wire Connector Kits

Ordering Information for kits including In-Sure™ Push-In Connectors

Model	Description	Qty.	Cat. No.
	In-Sure™ Push-In Connector Premium Kit	50 x Model 32 50 x Model 33 50 x Model 34 40 x Model 87 20 x Model 88 15 x Model 90 30 x Model 341® (FOC)	**30-5020EU**
	In-Sure™ Push-In Connector Starter Kit	30 x Model 32 30 x Model 33 30 x Model 34 20 x Model 88	**30-5021EU**

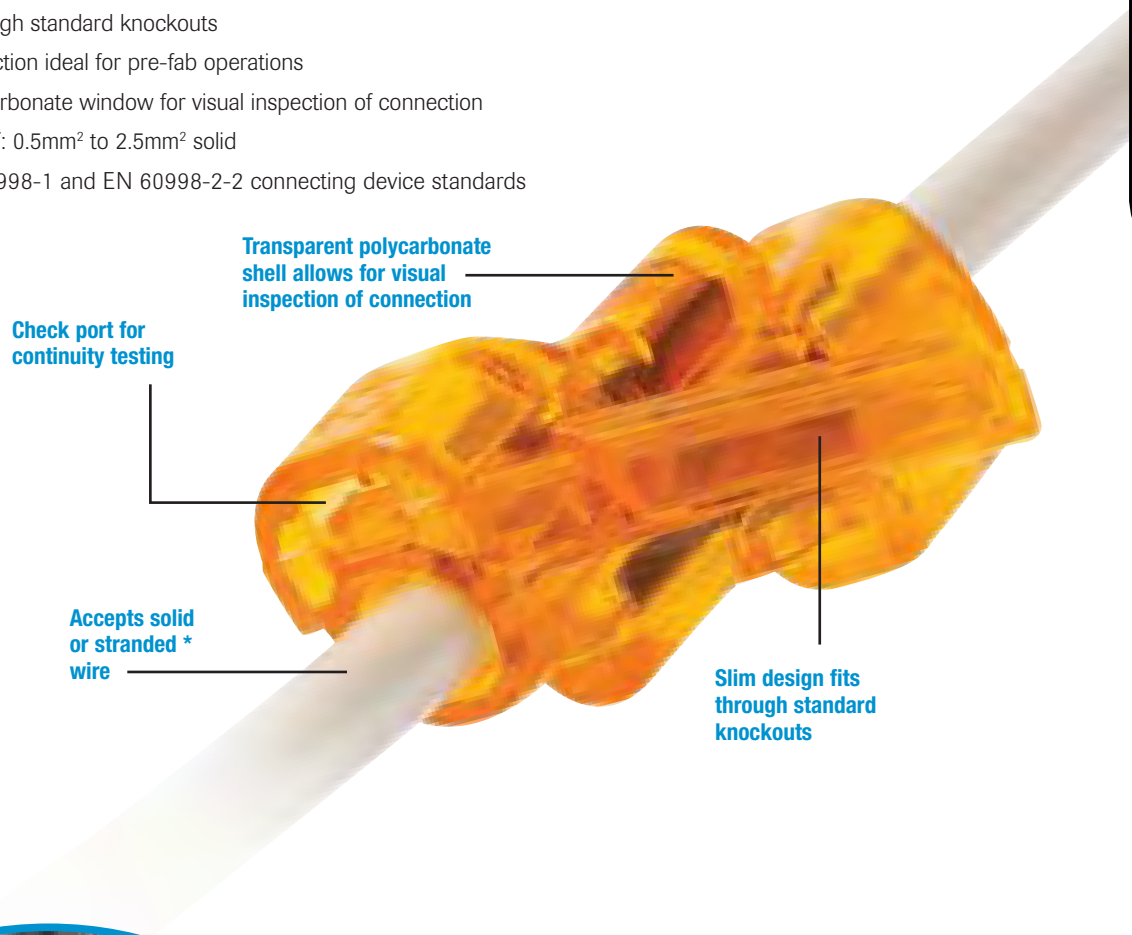
UL LISTED Sealed Wire Connector System 5N35 Cu/Cu Only CSA CE



SpliceLine™ In-Line Wire Connectors

The SpliceLine™ in-line wire connector provides a crimp-free, solderless butt splice. Classified as "Maintenance Free" as per BS7671:2008, the two-port model accepts up to 2.5mm² wire, allowing one connector to do the job of multiple butt splices.
Its end-to-end connection is also a great solution for pre-fab operations.

- BS 7671:2008 (17th Edition) Compliant
- 32 Amp rating
- Crimp-free, push-in butt splice
- Easily passes through standard knockouts
- End-to-end connection ideal for pre-fab operations
- Transparent polycarbonate window for visual inspection of connection
- Wide wire range of: 0.5mm² to 2.5mm² solid
- Conform to EN 60998-1 and EN 60998-2-2 connecting device standards


Transparent polycarbonate shell allows for visual inspection of connection
Check port for continuity testing
Accepts solid or stranded * wire
Slim design fits through standard knockouts

A GREAT PRE-FAB SOLUTION

Model	Colour	Rating	Wire Range	Quantity	Cat. No.
42	Orange	32A / 450V 105°C	Solid: 0.5mm² to 2.5mm²	Box of 100	**30-1042**

* Stranded wire is limited to ≤ 7 strands

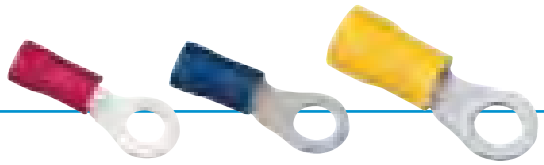
MF · UL Wire Connector 774A LISTED · Cu/Cu Only · SP®

Insulated Crimp Terminals-Rings, Disconnects and Splices

- Butted seam-construction prevents splitting under maximum pressure
- Internal barrel serrations grip wires tightly to resist pull-out and reduce electrical resistance
- Tin-plated brass construction for corrosion resistance
- Shouldered barrel insulation quickly positions terminal for proper crimping
- Expanded insulation entry accomodates a wide variety of insulation diameters and provides additional insulation support
- Colour-coded insulation and wire range stamped on terminal for easy identification
- See product packaging for recommended crimp tools

Ring & Spade Terminals

Vinyl Insulated Ring Terminals

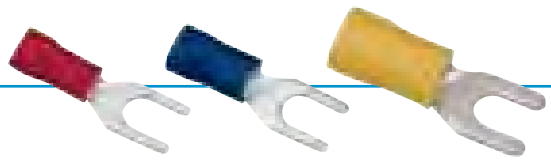


Wire Range	Stud Size mm	Quantity	Cat. No.
0.5–1.0mm²	3.5mm	25	**83-2121**
	4.0mm	25	**83-2131**
	5.0mm	25	**83-2141**
	6.4mm	25	**83-2151**
1.5–2.5mm²	3.5mm	25	**83-2221**
	4.0mm	25	**83-2231**
	5.0mm	25	**83-2241**
	6.0mm	25	**83-2251**
4.0–6.0mm²	4.0mm	25	**83-2331**
	5.0mm	25	**83-2341**
	6.0mm	25	**83-2351**
	8.0mm	25	**83-2361**
	10.5mm	25	**83-2371**

75° C/600 Volts max.

Wire Connector 774A LISTED Cu only

Vinyl Insulated Spade Terminals



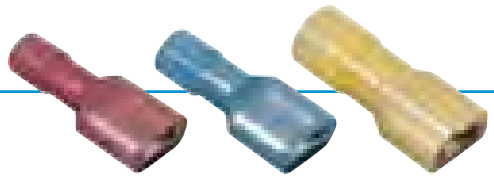
Wire Range	Stud Size mm	Quantity	Cat. No.
0.5-1.0mm²	3.5mm	25	**83-7111**
	4.0mm	25	**83-7121**
	5.0mm	25	**83-7131**
1.5-2.5mm²	3.5mm	25	**83-7151**
	4.0mm	25	**83-7161**
	5.0mm	25	**83-7171**
4.0-6.0mm²	3.5mm	25	**83-7201**
	4.0mm	25	**83-7211**
	5.0mm	25	**83-7221**
	6.0mm	25	**83-7231**

75° C/600 Volts max.

Wire Connector 774A LISTED Cu only

Disconnects

Nylon Fully-Insulated Female Disconnects

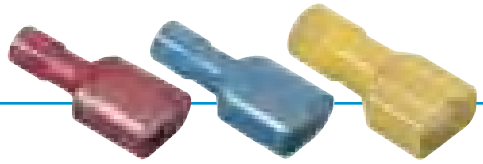


Wire Range	Tab Size mm	Quantity	Cat. No.
0.5-1.0mm²	6.3mm x 0.8mm	25	**83-9771**
1.5-2.5mm²	6.3mm x 0.8mm	25	**83-9781**
4.0-6.0mm²	6.3mm x 0.8mm	25	**83-9791**

105° C/300 Volts max.

UL Wire Connector 774A LISTED Cu only c UL

Nylon Fully-Insulated Male Disconnects

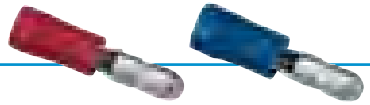


Wire Range	Tab Size mm	Quantity	Cat. No.
0.5-1.0mm²	6.3mm x 0.8mm	25	**83-9911**
1.5-2.5mm²	6.3mm x 0.8mm	25	**83-9921**
4.0-6.0mm²	6.3mm x 0.8mm	25	**83-9931**

105° C/300 Volts max.

UL Wire Connector 774A LISTED Cu only c UL

Vinyl Insulated Bullet Disconnects

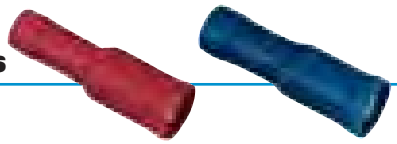


Wire Range	Quantity	Cat. No.
0.5-1.0mm²	25	**83-8001**
1.5-2.5mm²	25	**83-8011**

75° C/300 Volts max.

UL Wire Connector 774A LISTED Cu only c UL

Vinyl Fully-Insulated Receptacle Disconnects



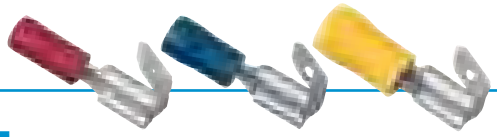
Wire Range	Quantity	Cat. No.
0.5-1.0mm²	25	**83-8101**
1.5-2.5mm²	25	**83-8111**

75° C/300 Volts max.

UL Wire Connector 774A LISTED Cu only c UL

Disconnects & Butt Splices

Vinyl Insulated Multi-Stack Disconnects

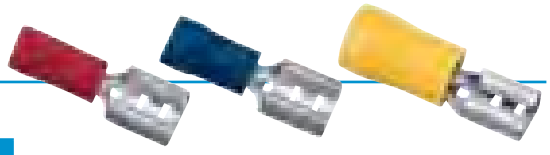


Wire Range	Tab Size mm	Quantity	Cat. No.
0.5-1.0mm²	6.3mm x 0.8mm	25	**83-9611**
1.5-2.5mm²	6.3mm x 0.8mm	25	**83-9621**
4.0-6.0mm²	6.3mm x 0.8mm	25	**83-9631**

75° C/300 Volts max.

UL Wire Connector 774A LISTED Cu only c UL

Vinyl Insulated Female Disconnects



Wire Range	Tab Size mm	Quantity	Cat. No.
0.5-1.0mm²	2.8mm x 0.5mm	25	**83-9511**
1.5-2.5mm²	2.8mm x 0.5mm	25	**83-9521**
0.5-1.0mm²	4.8mm x 0.5mm	25	**83-9541**
1.5-2.5mm²	4.8mm x 0.5mm	25	**83-9551**
0.5-1.0mm²	6.3mm x 0.8mm	25	**83-9571**
1.5-2.5mm²	6.3mm x 0.8mm	25	**83-9581**
4.0-6.0mm²	6.3mm x 0.8mm	25	**83-9601**

75° C/300 Volts max.

UL Wire Connector 774A LISTED Cu only c UL

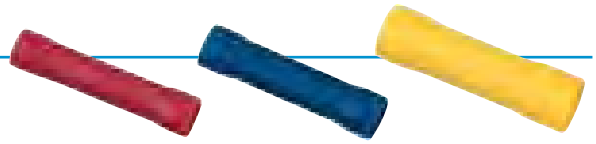
Vinyl Insulated Male Disconnects

Wire Range	Tab Size mm	Quantity	Cat. No.
0.5-1.0mm²	6.3mm x 0.8mm	25	**83-9971**
1.5-2.5mm²	6.3mm x 0.8mm	25	**83-9981**
4.0-6.0mm²	6.3mm x 0.8mm	25	**83-9991**

75° C/300 Volts max.

UL Wire Connector 774A LISTED Cu only c UL

Vinyl Insulated Butt Splices



Wire Range	Quantity	Cat. No.
0.5-1.0mm²	25	**83-9281**
1.5-2.5mm²	25	**83-9291**
4.0-6.0mm²	25	**83-9301**

75° C/600 Volts max.

UL Wire Connector 774A LISTED Cu only c UL

TOOLS & SUPPLIES

B

Tuff-Grip™ Pro...
Industry's Leading Fish Tape!

Tuff-Grip™ Handle
Large, comfortable ergonomically-designed, grasp from the top or side. Allows for use with gloves.
Etched in (12") increments to provide instant conduit length.
Tuff-Cuff™ tape retaining feature keeps tape properly positioned in the opening.
Superior pull-out and rewind characteristics.
Exceptionally Durable Case and Handle
Full-perimeter handle band helps keep dirt and moisture out, prolonging life.

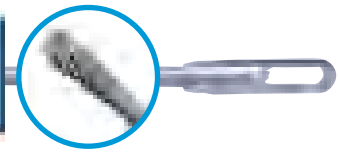
Fish Tape Materials

Blued Steel™

- Laser etched in 12" increments to provide instant conduit length
- Unique finish is non-oily and resists rust
- Multiple options in width, length and eyelet for ease of use
- Industry's straightest wire
- Stiffer for long runs
- Highest grade carbon steel
- Tensile strength 725 kg (1,600 lbs.)

Length marked! Now laser etched in 12" increments to provide instant conduit length.

Zoom™



- 19 strands of stainless steel
- Ultra hard nylon jacket adds slipperiness, protects cables and user's hands
- Excellent for corrugated plastic conduit

19 strand twisted radial steel core encased in high molecular density outer jacket.

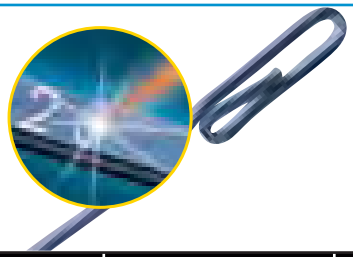
- Excellent for multiple bends or wet/corrosive work environment
- The only one in the industry

Volt-Guard™

- Non-conductive to 1000V
- Rectilinear profile for superior pushing power
- Designed for use around live circuits

Blued-Steel™ Fish Tapes

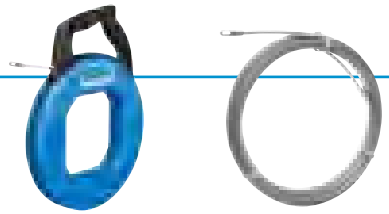
- Laser etched in 12" increments to provide instant conduit length
- High column strength for longer runs
- Non-oily finish resists rust



Length (m/ft.)	Width & Thickness mm / in	Case Diameter	End Type	Tuff-Grip™ Pro	Replacement Tapes
Blued Steel™					
18 / 60	3.2 x 1.5 / 1/8 x .060	30 cm / 12 in.	Formed hook	**31-055**	**31-035**
36 / 120	3.2 x 1.5 / 1/8 x .060	30 cm / 12 in.	Formed hook	**31-056**	**31-036**
73 / 240	3.2 x 1.5 / 1/8 x .060	30 cm / 12 in.	Formed hook	**31-057**	**31-038**

Zoom™ Fish Tapes

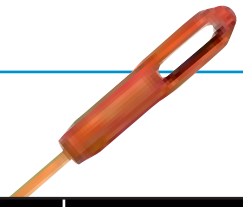
- Great for hard to navigate conduit with multiple bends
- Nylon jacket protects the steel core while adding to the slipperiness of Zoom™

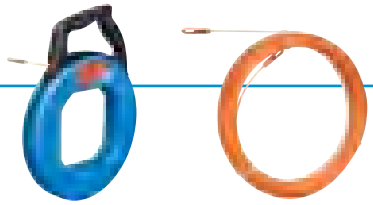


Length (m/ft.)	Width & Thickness mm / in.	Case Diameter	End Type	Tuff-Grip™ Pro	Replacement Tapes
Zoom™ Nylon Jacketed Stainless Steel					
15 / 50	4.8 / 3/16 diameter	30 cm / 12 in.	Eyelet	**31-090**	**31-091**
30 / 100	4.8 / 3/16 diameter	30 cm / 12 in.	Eyelet	**31-092**	**31-093**
60 / 200	4.8 / 3/16 diameter	40 cm /16 in.	Eyelet	**31-096**	**31-097**

Volt-Guard™ Fish Tapes

- Non-conductive up to 1000V
- Elliptical design gives the Volt-Guard™ greater pushing power

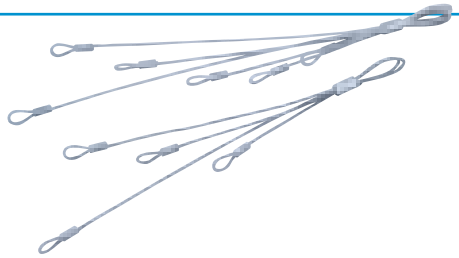




Length (m/ft.)	Width & Thickness mm / in.	Case Diameter	End Type	Tuff-Grip™ Pro	Replacement Tapes
Fibreglass					
18 / 60	4.8 x 2.4 / .1875 x .094	30 cm / 12 in.	Eyelet	**31-542**	**31-552**
36 / 120	4.8 x 2.4 / .1875 x .094	30 cm / 12 in.	Eyelet	**31-544**	**31-554**

Multi-Wire Pulling Leader

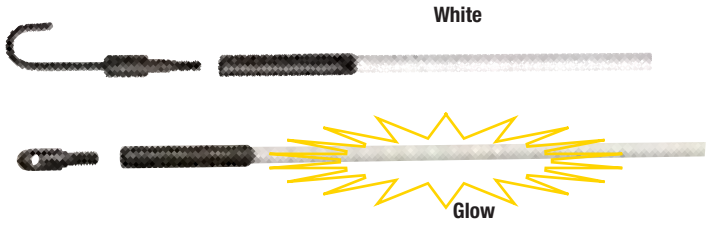
- Pulls multiple wires at one time
- Staggered connection points prevent bunching or hang-ups in tight bends
- 227 kg / 500 lb. working strength at main eyelet and up to 68 kg / 150 lbs. with each individual eyelet



Description	Cat. No.
Multi-Wire Pulling Leader – 4-loop	**31-147**

Tuff-Rod™ Cable Pulling Rods

- Strong, lightweight, flexible extendable fibreglass rod kits
- Use to reach and pull wires over suspended ceilings, in cable trays or through interior walls
- Packaged in clear tubes for protection and long-term storage



Tuff-Rod™ Regular Flex

- 6 mm / 1/4 in. white fiberglass
- Extra stiffness for added control when maneuvering wires

Description	Cat. No.
3.6 m / 12 ft. kit with fixed bullet nose and threaded J hook (3 ea. 1.22 m / 4 ft. sections)	31-611
7.3 m / 24 ft. kit with fixed bullet nose and threaded bullet nose (4 ea. 1.83 cm / 6 ft. sections)	31-612
12 pack of 1.22 m (4 ft.) Regular Flex Replacement Rods	31-643
12 pack of 1.83 m (6 ft.) Regular Flex Replacement Rods	31-644

Tuff-Rod™ Extra Flex Glow

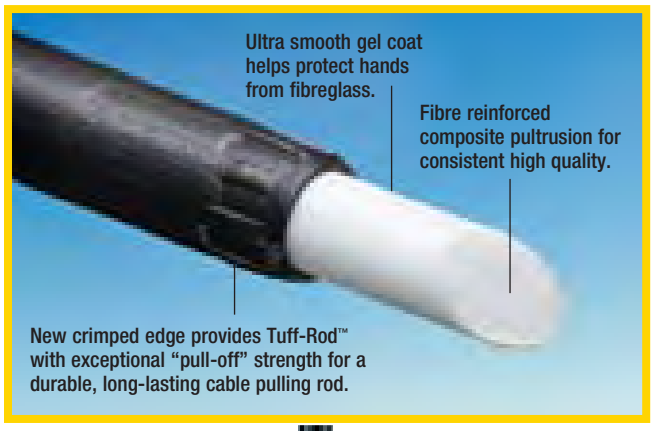
- 4.8 mm / 3/16 in. pale green luminescent fibreglass
- Glow-in-the-dark material for easy use in attics, basements and other dim lit areas

Description	Cat. No.
3.6 m (12 ft.) kit with fixed bullet nose and threaded J hook (3 ea. 1.22 m (4 ft.) sections)	31-631
9.15 m / 30 ft. kit with fixed bullet nose and threaded bullet nose (5 ea. 1.83m (6 ft.) sections)	31-633
12 pack of 1.22 m (4 ft.) Extra Flex Glow Replacement Rods	31-647
12 pack of 1.83 m (6 ft.) Extra Flex Glow Replacement Rods	31-648

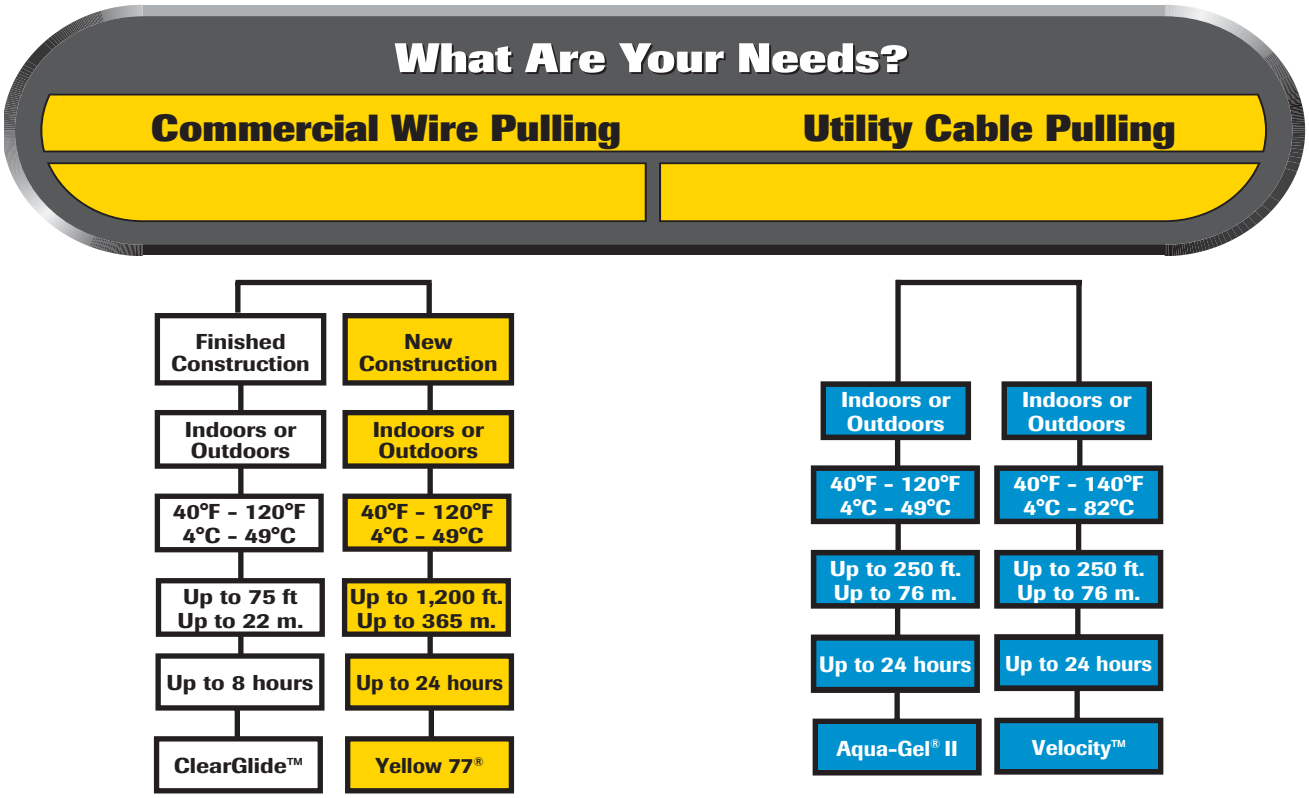
Accessory Kits

- Includes replacement heads, one threaded bullet nose, one threaded J hook and one threaded wisk

Description	Cat. No.
4.8 mm / 3/16 in. Accessory kit	31-651
6 mm / 1/4 in. Accessory kit	31-652

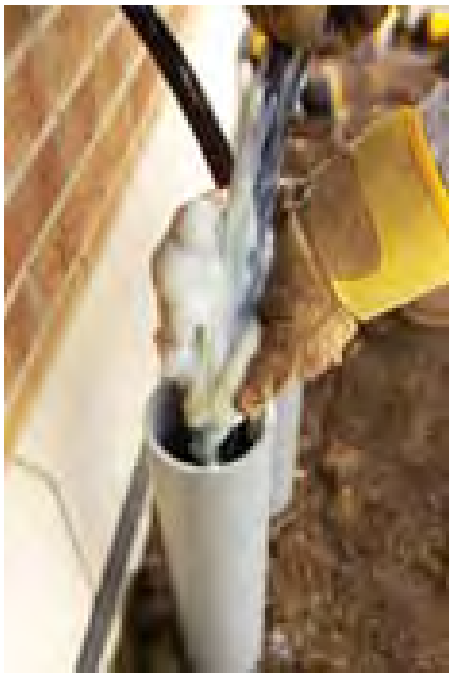

Ultra smooth gel coat helps protect hands from fibreglass.
Fibre reinforced composite pultrusion for consistent high quality.
New crimped edge provides Tuff-Rod™ with exceptional "pull-off" strength for a durable, long-lasting cable pulling rod.

Select-a-Lubricant


What Are Your Needs?
Commercial Wire Pulling
Utility Cable Pulling
Finished Construction
New Construction
Indoors or Outdoors
Indoors or Outdoors
40°F - 120°F 4°C - 49°C
40°F - 120°F 4°C - 49°C
Up to 75 ft Up to 22 m.
Up to 1,200 ft. Up to 365 m.
Up to 8 hours
Up to 24 hours
ClearGlide™
Yellow 77®
Indoors or Outdoors
Indoors or Outdoors
40°F - 120°F 4°C - 49°C
40°F - 140°F 4°C - 82°C
Up to 250 ft. Up to 76 m.
Up to 250 ft. Up to 76 m.
Up to 24 hours
Up to 24 hours
Aqua-Gel® II
Velocity™

Wire Pulling Lubricant Selection Guide

	ClearGlide™ Wire Pulling Lubricant	Yellow 77® Wire Pulling Lubricant	Aqua-Gel® II Wire Pulling Lubricant	Velocity™ Wire Pulling Lubricant
Colour	Clear	Yellow	Blue	Cream
Base	Polymer	Wax	Polymer	Polymer
Average Coefficient of Friction*	.23	.17	.19	.16
Safe Storage	32°F – 180°F (0°C – 82°C)	32°F – 130°F (0°C – 54°C)	32°F – 180°F (0°C – 82°C)	40°F – 140°F (4°C – 82°C)
Application Temperature Range	40°F – 100°F (4°C – 38°C)	40°F – 100°F (4°C – 38°C)	40°F – 100°F (4°C – 38°C)	25°F – 140°F (-3.9°C – 60°C)
COMPATIBILITY (Cable Types):				
Rubber	•	•	•	•
Neoprene	•	•	•	•
Nylon	•	•	•	•
PVC	•	•	•	•
High-density or cross-linked polyethylene	•	•	•	•
Low-density polyethylene	•		•	•
Semiconducting jacket	•		•	•
Hypalon	•	•	•	•



Results from NEETRAC, an independent testing laboratory affiliated with The Georgia Institute of Technology.

Aqua-Gel® II Cable Pulling Lubricant

- Polymer-based formula provides maximum tension reduction in high-stress electrical and communication cable-pulling operations
- Compatible with all cable types except composite rubber
- Cleans up easily with soap and water
- Clings to cable throughout long pulls
- Remains stable over wide temperature range — usable from -2°C to 88°C (28°F to 180°F)
- Dries to a semi-fluid film that won't clog conduit
- Easy to apply by hand, brush or pump
- Environmentally safe – non-toxic, non-flammable and non-corrosive
- For outdoor use only

UL LISTED

Description	Cat. No.
0.95 litre / 1-qt. Squeeze bottle	**31-378**
3.79 litre / 1-gal. Bucket	**31-371**

Yellow 77® Wire Pulling Lubricant

- The no. 1 brand of wire pulling lubricant since 1959 — the perfect general purpose lube
- Wax-based formula provides superior lubricity
- Safe to use with most cable types except low-density polyethylene and semi-conducting jackets
- Clings to cable throughout long pulls, even where moisture is present
- Won't break down or separate after repeated exposure to freezing temperatures
- Dries to a thin, non-conductive film
- Easy to apply by hand or brush
- Creamy texture applies easily and uniformly
- Homogeneous blend requires no mixing
- Won't dry out — surface coat forms to control evaporation
- Environmentally safe — non-toxic, non-flammable and non-corrosive

UL LISTED

Description	Cat. No.
0.95 litre / 1-qt. Squeeze bottle	**31-358**
3.79 litre / 1-gal. Bucket	**31-351**
18.93 litre / 5-gal. Bucket	**31-355**

ClearGlide™ Wire Pulling Lubricant

- Clear and colourless for quick and easy clean-up — great for indoor and retrofit pulls
- Exceptional lubricity for super-fast pulls
- Polymer-based formula is perfect for all electrical and datacomm applications
- Safe to use with all cable types
- Controlled evaporation rate is ideal for shorter runs
- Remains stable over wide temperature ranges — usable from -1°C to 82°C (30°F to 180°F)
- Dries to a semi-fluid film that won't clog conduit
- Easy to apply by hand, brush or pump
- Environmentally safe — non-toxic, non-flammable and non-corrosive

UL LISTED

Description	Cat. No.
0.95 litre / 1-qt. Squeeze bottle	**31-388**
3.79 litre / 1-gal. Bucket	**31-381**
18.93 litre / 5-gal. Bucket	**31-385**

Velocity™ Wire Pulling Lubricant

- High cling factor
- Maximum friction reduction
- Specification grade
- Compatible with all popular cable types
- Temperature stable
- Non-combustible residue
- Environmentally safe — non-toxic, non-flammable and non-corrosive

UL LISTED

Description	Cat. No.
0.95 litre / 1-qt. Squeeze bottle	**31-276**
3.79 litre / 1-gal. Bucket	**31-277**

Duct Seal

- Seals around junction boxes, flashings and service entrances
- Permanently soft, non-toxic compound can be painted immediately after application
- Won't adversely affect other plastic materials or corrode metals

UL LISTED

Description	Cat. No.
0.45 kg / 1 lb. Block (10/carton)	**31-601**
2.27 kg / 5 lb. Block (10/carton)	**31-605**

Noalox® Anti-Oxidant

- Anti-oxidant and anti-seizing compound improves efficiency and service life of aluminum-to-aluminium and aluminium-to-copper electrical connections
- Suspended zinc particles penetrate and cut aluminum oxide
- Provides additional inter-strand and inter-conductor current paths for improved conductivity and cooler connections
- Carrier material excludes air to prevent further oxidation
- For use with all types of pressure-type wire connectors including screw-on, tap, service entrance and split-bolt
- Reduces galling and seizing and promotes good ground continuity on aluminium conduit joints

UL LISTED

Description	Cat. No.
118 ml / 4-oz. Squeeze bottle	**30-026**
236 ml / 8-oz. Brush cap	**30-031**

Conduit Benders

- Exceptionally durable materials for extra strength
- Reinforced at stress points for longer life
- Markings are raised and cast into the bender body on both sides for easy visibility
- Deeply serrated step helps prevent slippage when applying force
- Grooved internal hook surface helps prevent conduit from slipping
- Flat hook surface provides stable starting point
- Desirable Benfield bending system
- Much lower cost than stand mounted benders
- Takes up minimal space in vehicle
- Simple to use with no set-up required

Ductile Iron

- Withstands a lifetime of heavy use
- Ductile iron material is stronger than malleable iron or aluminium

Ductile Iron Head & Handle Complete

Conduit Type and Size	Cat. No.
20 mm / 3/4 in. steel conduit	74-027
25 mm / 1 in. steel conduit	74-028

Ductile Iron Head Only

Conduit Type and Size	Cat. No.
20 mm / 3/4 in. steel conduit	74-002
25 mm / 1 in. steel conduit	74-003

Aluminium

- Lightweight aluminium for easy handling
- Strong enough for every day use

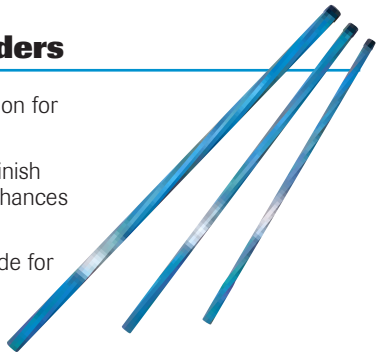
Aluminum Head & Handle Complete

Conduit Type and Size	Cat. No.
20 mm / 3/4 in. steel conduit	74-047

Aluminum Head Only

Conduit Type and Size	Cat. No.
20 mm / 3/4 in. steel conduit	74-032

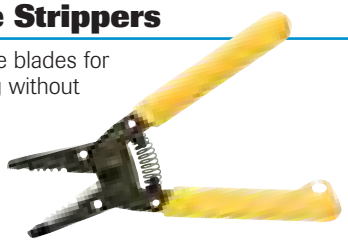
Handles for Benders



- Rugged, steel construction for long-term durability
- Baked-on blue enamel finish resists corrosion and enhances visibility
- Convenient bending guide for offset bends

Conduit Type and Size	Cat. No.
20 mm / 3/4 in. steel conduit	74-019
25 mm / 1 in. steel conduit	74-020

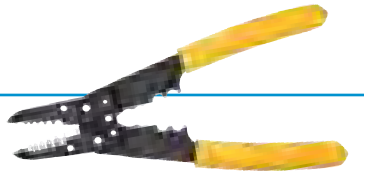
T®-Stripper Wire Strippers



- Form-ground, knife-type blades for accurate, easy stripping without nicking insulation
- Built-in wire cutter and looping holes
- Convenient plier nose for extra gripping strength
- Laser-etched wire gauge for easy-to-read visibility
- Spring-loaded automatic opening
- Corrosion-resistant, black oxide finish
- Tough steel construction

Description	Solid	Stranded	Cat. No.
T®-Stripper Wire Stripper – Metric	0.75-6.0mm²		**45-120-341**
T®-Stripper Wire Stripper – Metric	0.5-4.0mm²		**45-125-341**

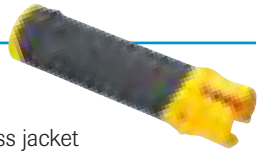
7-in-1 Stripper



- Versatile, seven-function tool features precision-ground stripping blades, cushioned grips and plier nose
- Strips 1.5mm² - 6.0mm² solid and 0.5mm² - 4.0mm² stranded wire
- Crimps bare and insulated terminals from 0.5mm²-5.0mm² wire, RG-59 coax connectors and 7 to 8mm auto ignition connectors
- Cuts unhardened wire, bolts and screws and reforms threads
- Reams and de-burrs conduit
- Gauges and loops wire

Description	Cat. No.
7-in-1 Stripper	**45-777**

Lil' Ripper Stripper™



- Rips Twin & Earth outer jacket cleanly and quickly
- Clips outer sheathing to remove excess jacket
- Strips inner conductor wires
- Looping holes loop wire for screw-on connections
- Twist-Assist™ tightens most popular sizes of winged twist-on connectors
- Injection moulded elastomer grip provides a comfortable, slip resistant grip
- Strip length measuring scale allows for quick and easy measurements
- Conveniently fits in your pocket

Description	Cat. No.
Lil' Ripper Stripper™	**45-025**

Reflex™ Premium T®-Stripper Wire Strippers

- Ergonomic design for maximum comfort
- Curved handles reduce wrist fatigue
- Sleeves extend to stripping head to cushion thumb and fingers
- Textured, no-slip sleeves provide a sure, easy grip

Description	Solid	Stranded	Cat. No.
Reflex™ Premium T®-Stripper – Metric	0.5mm²-4.0mm²		**45-425-341**

Kinetic™ Super Wire Stripper

- Non-slip Santoprene™ textured grips
- Plier nose for holding and twisting wires
- Slide lock for safety and storage
- Thumb and finger valley makes stripping easier and more accurate
- Shear-Cut™ bolt cutters

Description	Solid	Stranded	Cat. No.
Kinetic Super™ Wire Stripper	10-18	12-20	**45-715**

Kinetic™ Reflex™ T®-Stripper Wire Stripper

- Non-slip Santoprene™ textured grips and thumb rest
- Plier nose for holding and twisting wires
- Slide lock for safety and storage
- Thumb and finger valley makes stripping easier and more accurate
- Shear-Cut™ bolt cutters

Description	Solid	Stranded	Cat. No.
Kinetic™ Reflex™ T®-Stripper Wire Stripper	10-18	12-20	**45-915**

Stripmaster® Wire Stripper

- One-step stripping enhances productivity
- Spring-action motion increases leverage and reduces operator fatigue
- Precision-ground, knife-type blades provide clean, accurate stripping
- Sturdy die-cast frame provides long-term durability
- Wire gripper holds wire securely in position

Knife-Type Blades for Metric Wire

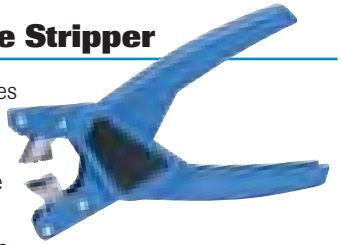
Stripping Hole Diameter mm						
0.75 mm²	1.0 mm²	1.5 mm²	2.5 mm²	4.0 mm²	6.0 mm²	Cat. No.
1.3	1.6	1.9	2.4	3	3.6	**45-292-341**

Aviation Tin Snips

- Chrome-molybdenum steel forged blades for greater strength and durability
- Serrated edges provide a stable hold when cutting
- Labour-saving design for easier cutting
- Comfortable non-slip dual durometer grips

Description	Cat. No.
Straight-Cut Aviation Tin Snips	**35-001**

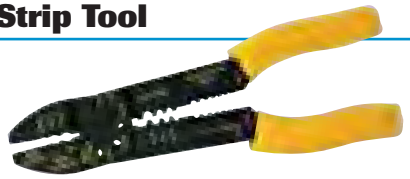
Twin & Earth Cable Stripper



- Self-adjusting stripping blades automatically select proper position
- Strips Twin and Earth cable
- Open-throat construction allows unlimited strip length
- Neatly removes outer cable sheath and inner wire sheathing to desired lengths
- Lightweight, ergonomic design reduces user fatigue

Description	Cat. No.
Twin & Earth Cable Stripper	**45-235**

Multi-Crimp Strip Tool



- Cuts wire
- Crimps insulated and non-insulated wires
- Cuts bolts
- Strips 0.5mm² - 4.0mm² (10-22 AWG) wire

Description	Cat. No.
Multi-Crimp Strip Tool	**45-778**

Ratchet Crimp Tool

- Crimps insulated or bare terminals and splices on 0.5mm² - 4.0mm² (10–22 AWG) wire
- Ratchet action prevents release prior to crimp connection — helps ensure uniform crimps
- Vinyl-coated handles provide a solid, comfortable grip

Description	Cat. No.
Ratchet Crimp Tool	**83-001**

Adjustable Wrenches

- Narrow profile head reaches into tight spaces
- Tight tolerance on thumbscrew won't loosen or wobble with use
- Extra wide jaw capacity with metric and imperial markings
- Forged steel construction
- Tempered and hardened for lifetime service

Description	Jaw Capacity	Cat. No.
200 mm / 8 in. Adjustable Wrench	**29 mm / 1-1/8 in.**	**35-020**
300 mm / 10 in. Adjustable Wrench	**33 mm / 1-5/16 in.**	**35-021**

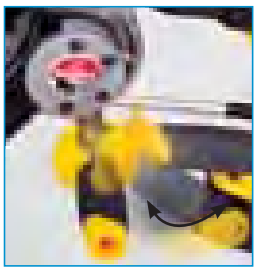
Waterpump Pliers

Description (Dipped Handles)	Jaw Opening (mm/inches)	(Inches)
250 mm / 10 in. Tongue & Groove Pliers	50 mm / 2"	**35-430**
300 mm / 12 in. Tongue & Groove Pliers	57 mm / 2-1/4"	**35-440**

PowerBlade™ Cable Cutter

- Extremely versatile: fits almost any drill (12V minimum)
- Cuts copper up to 5 cm (2 in.) diameter or 380 mm² (750 MCM) or aluminum up to 5 cm (2 in.) diameter or 507 mm² (1000 MCM)
- Heavy-duty gears and specially hardened blades for professional quality
- Rounded blade design minimises cable distortion during cutting
- No need to mess with battery packs or special chargers; this tool works with the drill you already carry!

(Drill not included)



(Folding handle for storage.)

Description	Cat. No.
PowerBlade™ Cable Cutter	35-078
PowerBlade™ Replacement Handle	K-8947R
PowerBlade™ Replacement Blades (pair)	K-8906R
PowerBlade™ Replacement Torque Arm Assembly	K-8909
PowerBlade™ Replacement Carrying Case	K-8926

*Max. Jaw Opening - 5 cm (2 in.)

T®-Cutter Wire Cutters

- Hardened steel, sheer-type blades
- Spring-loaded automatic opening
- Convenient plier nose for extra gripping strength
- Corrosion-resistant, black oxide finish
- Tough steel construction
- Locking tab keeps spring in place

Description	Wire Range	Cat. No.
T®-Cutter Wire Cutter	Up to 1/2 in. O.D. fine-stranded wire and 10 AWG solid wire	45-123

Cable Cutters

Description (Dipped Handles)	Cat. No.
230 mm (9 in.) Cable Cutter	35-5052

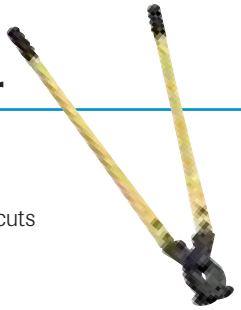
Ratcheting Cable Cutter

- 380 mm² (750 KCMIL) Ratcheting Cable Cutter is designed to cut 380 mm² (750 KCMIL (MCM) and smaller hard-drawn copper and aluminum cables
- Hardened steel blades ensure consistent cuts and long-term durability
- Rounded blade design minimizes cable distortion during cutting
- Quick release mechanism simplifies blade back-out
- Locking mechanism keeps handles closed for easy storage
- Moulded-in foot provides stability and leverage when making multiple cuts

Description	Cat. No.
380 mm² / 750 KCMIL (MCM) Ratcheting Cable Cutter*	35-053
Replacement blade (moveable side only)	35-057

*Max. Jaw Opening - 5 cm / 2 in.

Long-Arm Cable Cutter

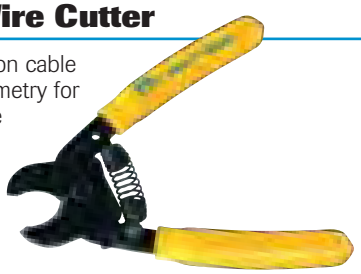


- High strength forged blades for ultimate durability
- Precision-ground jaws make clean cuts with minimal cable distortion
- Replaceable blades
- For copper and aluminium only.

Description	Length	Cat. No.
250 MCM (14.6 mm Dia.) Long-Arm Cable Cutter	350 mm/14"	35-031
500 MCM (20.7 mm Dia.) Long-Arm Cable Cutter	560 mm/22"	35-032
1000 MCM (29.3 mm Dia.) Long-Arm Cable Cutter	810 mm/32"	35-033

CAUTION: Comfort-grip handles are not designed to for protection against electrical shock. Do not use on live circuits.

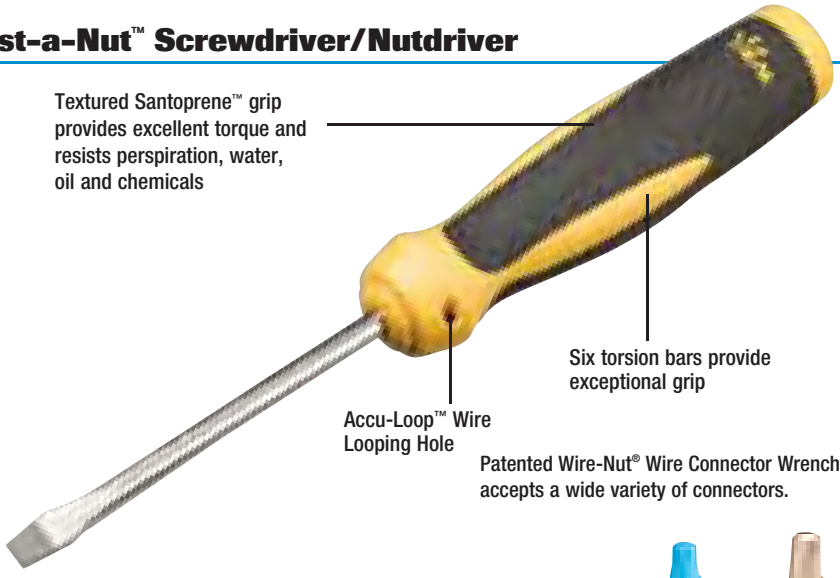
Data T®-Cutter Wire Cutter



- Cuts round communication cable and maintains cable geometry for better cable performance
- Cuts multi-pair cable up to 12.7 mm (.500 in.) and coaxial cable up to RG-9/U
- Suitable for soft cables (not steel re-inforced)
- Steel reinforced centre conductors can be trimmed with bolt cutting holes
- Cushioned comfort grip handles
- Locking latch keeps tool closed in pouch

Description	Cat. No.
Data T®-Cutter	45-074

Twist-a-Nut™ Screwdriver/Nutdriver


Textured Santoprene™ grip provides excellent torque and resists perspiration, water, oil and chemicals
Six torsion bars provide exceptional grip
Accu-Loop™ Wire Looping Hole
Patented Wire-Nut® Wire Connector Wrench accepts a wide variety of connectors.

Patented Wire-Nut® Wire Connector Wrench accepts a wide variety of connectors.

Accu-Loop™ Wire looping holes

Twister® Lite Twister®

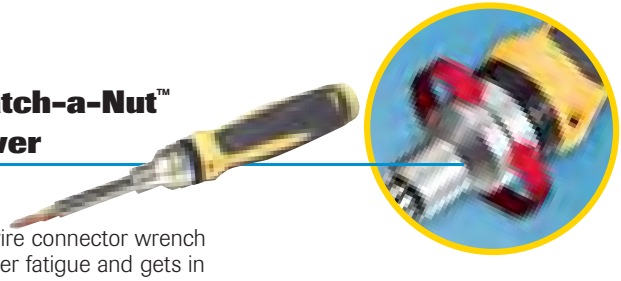
21-in-1 Twist-a-Nut™ Screwdriver

- Wire connector wrench prevents finger fatigue and gets in tight spots
- Premium screwdriver ratchet mechanism can handle high torque without failure
- Ergonomic, slip-free comfort grip
- Multiple bit storage unit and wire-looping hole in handle
- Includes: #1 Phillips, #2 Phillips, #3 Phillips, 4.5 mm slotted, 6 mm slotted, 8 mm slotted, #1 square, #2 square, #15 star, #20 star, #25 star, #30 star, 3/32" hex, 1/8" hex, 3/16" hex, 5/32" hex, 1/4" nut, 5/16" nut and 7/16" nut

Description	Cat. No.
21-in-1 Twist-a-Nut™ Screwdriver	35-688

Multiple bit stoarge unit

9-in-1 Ratch-a-Nut™ Screwdriver



- Ratcheting wire connector wrench prevents finger fatigue and gets in tight spots
- Premium screwdriver ratchet mechanism can handle high torque without failure
- Ergonomic, slip-free comfort grip
- Accepts Twist-a-Nut™ replacement bits
- Includes: 4.5 mm and 6 mm slotted, #1 & #2 Phillips, 1/4 in., 5/16 in., 7/16 in. nutdrivers, ratcheting screwdriver end, ratcheting wire connector wrench and wire-looping hole in handle

(Lifetime warranty excludes bits)

PREMIUM RATCHET HIGH TORQUE

(Lifetime warranty excludes bits)

All-Metal Ratchet

- Pro-quality, 28 tooth double action, twin-tooth ratchet
- 102 kg / 225 lbs. of torque (stronger than human wrist can torque)

Description	Cat. No.
9-in-1 Ratch-a-Nut™ Screwdriver	35-988

Volt-Guard™ Insulated Tools

The IDEAL insulated tool line creates a perfect blend of safety, comfort and precision functionality. Each tool features double insulated Santoprene® handles with a soft, easy-to-grip outer surface. In addition to the ergonomic qualities found in our tools, the insulated coating process acts as an 'at-a-glance' safety check. If the orange outer coating reveals any of the inner yellow surface, an electrician will know that this tool needs to be replaced.

- UL tested and listed
- 1000 Volt certified (1000V AC, 1500V DC)
- Meets ASTM F1505-01 and IEC 60 900 standards
- Meets HSE requirements for insulated tools
- Every 1000V insulated tool is individually tested to ensure no failure when subjected to live current

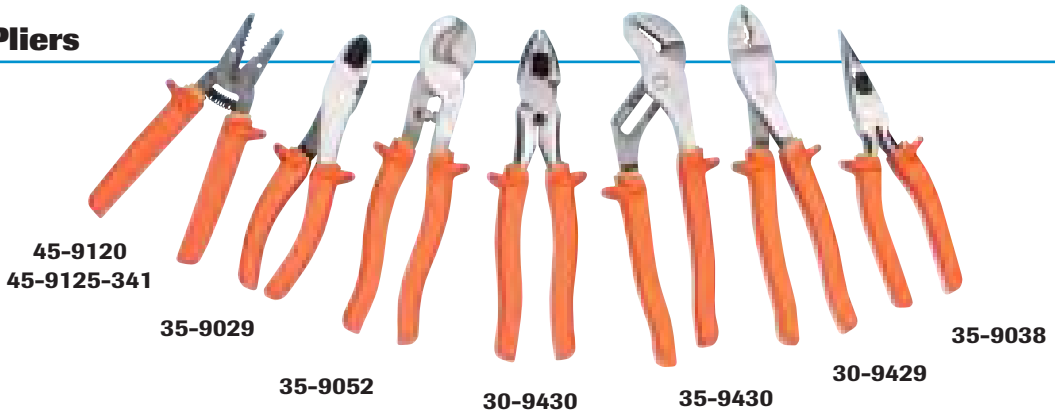
Serrated jaws provide secure gripping surface
Cutting jaws and edges are laser hardened for greater strength and durability
High visibility ergonomic handles for maximum comfort and control
High carbon tool steel for precision durability
Non-slip guard for added safety
Textured Santoprene® handles provide a sure grip and are resistant to perspiration, water, oil and chemicals
CLASSIFIED UL
Pliers only
Permanently bonded, double insulated handles for added safety

Safe-T-Grip® Fuse Pullers

- Maximum efficiency and convenience for removing or replacing cartridge-type fuses
- Three sizes accomodate fuses ranging from 0 to 600A
- Fully insulated, high-dielectric, glass-filled polypropylene construction
- Notched handles provide safe, no-slip grip
- Clearly marked amperage ranges
- Exceed MIL specifications

Description	Cat. No.
Small Puller for 250V, 0.7 cm (9/32 in.) to 1.3 cm (1/2 in.) dia. fuses; 13 cm (5 in.) long	34-001
Medium Puller for 0 to 100A/250V & 600V, 1.3 cm (1/2 in.) to 2.5 cm (1 in.) dia. fuses; 19 cm (7-1/2 in.) long	34-002
Large Puller for 31 to 600A/250V & 31 to 400A/600V, 1.9 cm (3/4 in.) to 6.3 cm (2-1/2 in.) dia. fuses; 30 cm (11-3/4 in.) long	34-003

Insulated Pliers



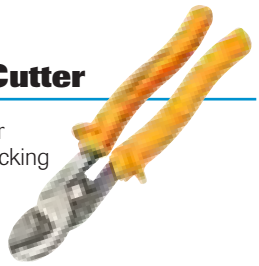
Description	Cat. No.
Premium T®-Stripper Wire Stripper - 10-18 AWG	45-9120
Premium T®-Stripper Wire Stripper - Metric 0.5mm²-4.0mm²	45-9125-341
200 mm / 8 in. Diagonal Cutting Pliers w/angled head	35-9029
240 mm / 9-1/2 in. High-Leverage Cable Cutter	35-9052

Description	Cat. No.
235 mm / 9-1/4 in. Side Cutting Linesman Pliers	30-9430
255 mm / 10 in. Waterpump Pliers	35-9430
250 mm / 9-3/4 in. Multi-Crimp/Cutter	30-9429
215 mm / 8-1/2 in. Long-Nose Pliers	35-9038

Insulated Hand Tools

- UL tested and listed
- 1000 Volt certified (1000V AC, 1500V DC)
- Meets ASTM F1505-01 and IEC 60 900 standards
- Meets HSE requirements for insulated tools
- Every 1000V insulated tool is individually tested to ensure no failure when subjected to live current

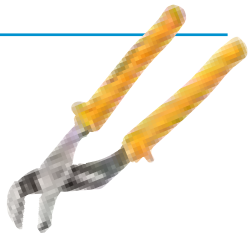
High-Leverage Cable Cutter



- Form-ground, knife-type blades for accurate, easy stripping without nicking insulation
- Drop-forged, high carbon steel construction
- Designed for maximum leverage with minimum effort
- Precision-ground, hardened cutting edges provide accurate cuts without cable distortion
- Cuts 2/0 copper and 4/0 aluminum

Description	Cat. No.
240 mm / 9-1/2 in. High-Leverage Cable Cutter	**35-9052**

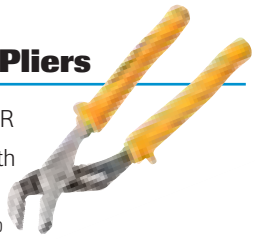
Waterpump Pliers



- Patented undercut tongue and groove design ensures solid grip
- Patented reinforced flange protects against breakage
- Laser-hardened teeth remain sharp longer
- Drop-forged, high-carbon steel construction withstands toughest applications

Description	Cat. No.
255 mm / 10 in. Tongue and Groove Pliers	**35-9430**

Side Cutting Linesman Pliers



- Cuts hardened wire, bolts and ACSR
- Unique reverse rivet protects smooth action of plier movement
- High-leverage design provides 40% more cutting power
- Induction-hardened blades and serrated jaws for long-term durability
- Drop-forged, high-carbon steel construction withstands toughest applications
- Crimps bare and insulated terminals

Description	Cat. No.
235 mm / 9-1/4 in. Side Cutting Linesman Pliers	**30-9430**

Premium T®-Stripper Wire Stripper

- Form-ground, knife-type blades for accurate, easy stripping without nicking insulation
- Built-in wire cutter and looping holes
- Convenient plier nose for extra gripping strength
- Laser-etched wire gauge for easy-to-read visibility
- Spring-loaded automatic opening
- Corrosion-resistants, black oxide finish
- Locking tabs keep spring in place

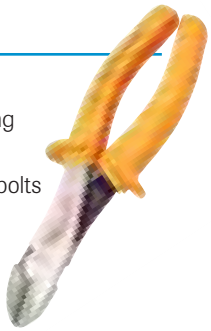
Description	Cat. No.
Premium T®-Stripper Wire Stripper - 10-18 AWG	**45-9120**
Premium T®-Stripper Wire Stripper - Metric 0.5mm²-4.0mm²	**45-9125-341**

Insulated Multi-Crimp/Cutter

- Crimps bare or insulated terminals and splices on 0.5mm² - 4.0mm² wire
- Knife-to-anvil blades never need resharpening
- Excellent leverage for easy crimping and cutting
- Drop-forged, high-carbon steel construction

Description	Cat. No.
250 mm / 9-3/4 in. Multi-Crimp Tool	**30-9429**

Diagonal Cutting Pliers



- Knife-to-anvil blades never need resharpening
- High-leverage design provides 40% more cutting power
- Induction-hardened blades cut hardened wire, bolts and ACSR
- A convenient angled head for hard-to-reach areas and knocking out nails
- Drop-forged, high-carbon steel construction withstands toughest applications

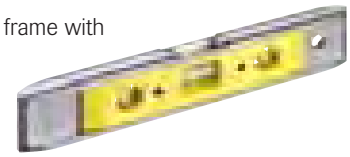
Description	Cat. No.
200 mm / 8 in. Diagonal Cutting Pliers w/angled head	**35-9029**

Long-Nose Pliers

- Narrow profile head designed for working in tight areas
- Serrated jaws provide secure gripping surface
- Knife-to-anvil blades never need resharpening
- Induction-hardened blades cut hardened wire, bolts and ACSR
- Drop-forged, high-carbon steel construction withstands toughest applications

Description	Cat. No.
215 mm / 8-1/2 in. Long-Nose Pliers	**35-9038**

Torpedo Level



- 230 mm / 9 in. aluminum frame with magnetic and V-grooved edges
- Windows provide easy reading of plumb level and 45° mitre in dim lighting
- Three rare earth magnets for strong cling to conduit

Description	Cat. No.
230 mm / 9 in. Torpedo Level	35-205

Drop-Forged Handled Hammer

- High quality
- One-piece drop-forged, tempered-steel polished head and handle
- Long, straight claws simplify removal of electrical fixtures
- Comfortable, perforated anti-vibe grips
- Elongated neck for hitting inside boxes

Description	Cat. No.
18 oz. (510 g) x 12-1/2 in. (31.75 cm) Drop-Forged Handled Hammer	35-210

Lever™ Snips Electrician's Scissors with Stripping Notches

- Ergonomic design gives added leverage
- Spring-action, mechanical advantage increases stripping leverage and reduces operator fatigue
- Double plated for added rust protection
- Extra-deep serrations grip wire better

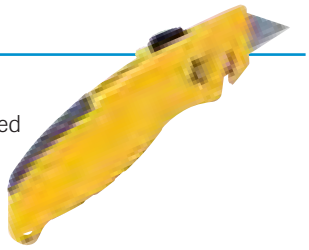
Description	Cat. No.
Electrician's Scissors with Stripping Notches	35-087

Hex-Key Sets

- 8650 grade steel construction
- Dual-durometer, slip-resistant grip

Description	Cat. No.
4 in. handle w/nine 3-in. keys (5/64 in., 7/64 in., 1/8 in., 9/64 in., 5/32 in., 3/6 in., 7/32 in. & 1/4 in.)	35-146

Utility Knife



- Quick-change retractable blade system — no disassembly required
- Built in pull-line cutter
- Includes three blades in storage compartment

Description	Cat. No.
Utility Knife	35-300
Replacement blades - Universal (5/pack)	35-301

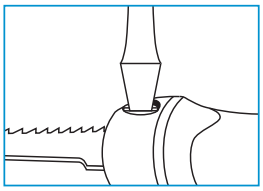
Electrician's Knife

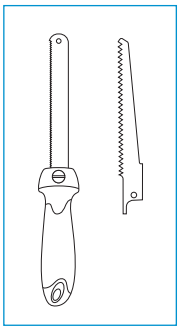
- 57 mm screwdriver blade
- 57 mm / 2-1/4 in. screwdriver blade locks in position
- High carbon stainless steel blade construction for extra strength and durability
- Durable Buyrate® non-slip handle
- Brass liners

Description	Cat. No.
Electrician's Knife w/spearpoint and screwdriver blade	35-285

Jab Saw

- Includes replaceable bi-metal wallboard blade
- Holds all reciprocating blades and hacksaw blades
- Ergonomic grip





Description	Cat. No.
Jab Saw	**35-275**
Replacement Blade	**36-088**

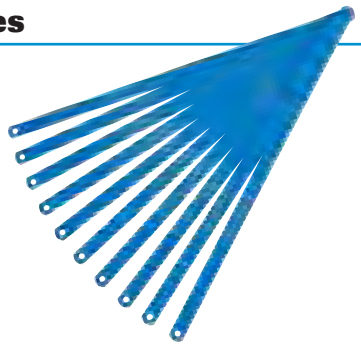
Ergonomic Hacksaw

- Angled handle for easier cutting
- Blade can easily be adjusted for flush cutting
- Easy tensioning wing-nut keeps blades tight for straighter cuts
- Cushioned ergonomic grip for performance and comfort
- Includes 300 mm / 12 in. x 24T bi-metal blade

Description	Cat. No.
Ergonomic Hacksaw	**35-261**

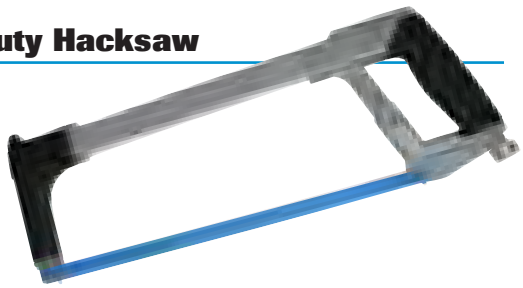
Hacksaw Blades

- Bi-metal blades provide strength, flexibility and longer life



Description	Qty./Pack	Cat. No.
300 mm / 12 in. x 18T Blades	10	**35-271**
300 mm / 12 in. x 24T Blades	10	**35-272**
300 mm / 12 in. x 32T Blades	10	**35-273**

Heavy-Duty Hacksaw



- Cushioned ergonomic grip for performance and comfort
- Rugged frame provides lightweight rigidity and exceptional control

- Stores up to nine extra blades
- Blades can be adjusted to 55° angle for flush cutting and tensioned to 30,000 psi
- Includes 300 mm / 12 in. x 24T bi-metal blade

Description	Cat. No.
Heavy-Duty Hacksaw	**35-260**

Mini Hacksaw

- Heavy-duty die cast frame
- Non-slip rubber comfort grip
- Accepts all standard hacksaw blades
- Supplied with 300mm/12” bi-metal hacksaw blade

Description	Cat. No.
Mini Hacksaw	**35-259**

Tuff-Tote™ Ultimate Tool Carrier

- 200 mm / 8 in. square tool carrier features 2 divided inside compartments with 6 screwdriver loops each, 1 large centre compartment, 4 outside pockets and 8 outside tool loops
- Exclusive leather-wrapped grab handle for carrying comfort
- Removable shoulder strap helps relieve lower back strain
- Unique stand-alone design keeps tools standing upright for easy identification and access
- Rust-resistant, plated-steel hardware and heavy, lock-stitched nylon thread for long-term durability
- Oil and moisture-resistant reinforced bottom
- Constructed from top grain, natural cowhide, tanned for added strength and durability
- The colour will age to a deep tan over the years

Description	Cat. No.
Leather Carrier w/shoulder strap	35-325

Tool Belt

35-316

- Nickel-plated hardware for long-term durability and corrosion resistance
- Constructed from top grain, natural cowhide, tanned for added strength and durability
- The colour will age to a deep tan over the years

Description	Cat. No.
Leather Belt - 45 mm / 1-3/4 in. x 1168 mm / 46 in.	35-316

Electrician's Tool Pouch

- 7 - pocket tool pouch
- Full length belt tunnel
- Chain tape lanyard
- Constructed of top-grain, natural cowhide and tanned for added strength and durability
- The colour will age to a deep tan over the years

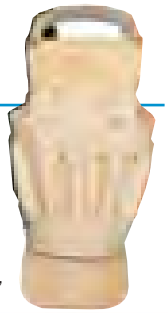
Description	Cat. No.
Electrician's Leather Tool Pouch	10-466

Tuff-Tote™ Tool Pouch

- 8-pocket, belt-mounted pouch features large utility compartment with 2 dividers and 6 screwdriver loops, 7 outside pockets, release snaps and tape chain
- Exclusive leather grab handle for carrying comfort
- Removable shoulder strap helps relieve lower back strain
- Rust-resistant, plated-steel hardware and heavy, lock-stitched nylon thread for long-term durability
- Tunnel belt loop accommodates belts up to 57 mm / 2-1/4 in. wide
- Constructed from top grain, natural cowhide, tanned for added strength and durability
- The colour will age to a deep tan over the years

Description	Cat. No.
Leather Pouch w/shoulder strap	35-311

Ergo Tool Pouch



- Compact ergonomic design for versatility and superior comfort
- Large tool holding capacity
- Constructed from top grain, natural cowhide, tanned for added strength and durability
- The colour will age to a deep tan over the years

Description	Cat. No.
Leather ERGO Tool Pouch	35-312

Large Mouth Bags

- Top opens completely for easy access to large tools — reinforced to hold itself open
- Measures 230 mm / 9 in. wide x 300 mm / 12 in. deep with outside and inside pockets for convenient hand tool storage
- Rugged zipper closure helps prevent tool loss
- Removable shoulder strap
- Durable multi-ply construction

Description	Cat. No.
Large Mouth Bag - 330 mm / 13 in. long	**35-410**
Large Mouth Bag - 450 mm / 18 in. long	**35-427**

Note: Tools sold separately.

Journeyman Electrician's Tote™ Tool Bag

- Compact and versatile design
- Carry as a hand-tote, shoulder-tote or tool-belt
- Includes removable shoulder strap and belt
- Durable multi-ply construction

Description	Cat. No.
Journeyman Electrician's Tote™	**35-462**

Master Electrician's Tote™ Tool Bag

- Spacious and durable design
- Organizes and displays tools for fast access
- Includes removable shoulder strap
- Durable multi-ply construction

Description	Cat. No.
Master Electrician's Tote™	**35-441**

IDEAL Cable Tie Catalogue Numbering System

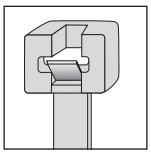
IT - 2 - S - MB - C - 0

IT	2	S	MB	CC	0
IT = IDEAL Powr-Tie™ Cable Ties	Size Approximate Bundle Diameter for ties	Tensile Strength M = Miniature (18 lbs.) I = Intermediate (40 lbs.) S = Standard (50 lbs.) LH = Light-Heavy Duty (120 lbs.) H = Heavy Duty (175 lbs.) EH = Extra Heavy-Duty (250 lbs.)	Style _ = Standard Tie ID = Identification MB = Mounting Base MP = Mounting Pad	Qty. Per Package L = 50 C = 100	Colour _ = Natural 0 = UV Black

Powr-Tie™ Cable Ties

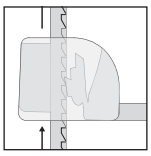
Quality Construction

- One-piece design for added strength
- Superior locking mechanism
- Exceeds industry tensile strength ratings



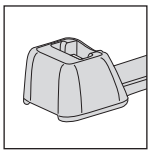
Low Insertion Force

- Tapered thin tip reduces initial friction
- Lowest insertion force with the highest tensile strength
- Reduces installation fatigue



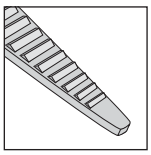
No Burrs or Sharp Edges

- Smooth corners provide added safety
- Rounded edges eliminate insulation damage



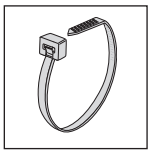
Stepped Tail Gripper

- Tapered tail grip assures positive threading
- Stepped tail allows for easier grabbing and tightening once engaged



Angled Tail

- Provides quicker initial insertion
- Lowers installation costs



Material Selection

- **ROHS Compliant**
- **Natural General Purpose 6/6 Nylon**
  - Suitable for most applications
  - Meets UL 94V-2 flammability ratings
  - 85°C/185°F working temperature
- **UV Black Nylon 6/6**
  - Suitable for most applications with continuous or extended exposure to outdoor elements
  - Weather-resistant grade, able to endure ultraviolet (UV) light
  - Meets UL 94V-2 flammability ratings
  - 85°C/185°F working temperature

Miniature (18 lb.) Ties Natural & UV Black

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Natural Nylon	4.0 in./102mm	.094 in./2.39mm	.042 in./1.06mm	1/16 - 7/8 in.	18 lbs.	MS3367-4-9	100	**IT1M-C**
UV Black Nylon						MS3367-4-0	100	**IT1M-C0**
Natural Nylon	6.1 in./154mm	.094 in./2.39mm	.042 in./1.06mm	1/16 - 3-1/2 in.	18 lbs.	—	100	**IT1_5M-C**
UV Black Nylon							100	**IT1_5M-C0**
Natural Nylon	8.1 in./206mm	.094 in./2.39mm	.042 in./1.06mm	1/16 - 2-3/16 in.	18 lbs.	—	100	**IT2M-C**
UV Black Nylon							100	**IT2M-C0**

*1M, 1_5M & 2M Series

Intermediate (40 lb.) Ties Natural & UV Black

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Natural Nylon	5.7 in./145mm	.140 in./3.56mm	.049 in./1.24mm	1/16 - 1-7/16 in.	40 lbs.	MS3367-5-9	100	**IT1_5I-C**
UV Black Nylon						MS3367-5-0	100	**IT1_5I-C0**
Natural Nylon	8.8 in./224mm	.140 in./3.56mm	.049 in./1.24mm	1/16 - 2-3/8 in.	40 lbs.	MS53367-5-9	100	**IT2I-C**
UV Black Nylon						MS53367-5-0	100	**IT2I-C0**
Natural Nylon	11.5 in./292mm	.142 in./3.60mm	.055 in./1.40mm	1/16 - 3-3/8 in.	40 lbs.	—	100	**IT3I-C**
UV Black Nylon							100	**IT3I-C0**
Natural Nylon	14.5 in./368mm	.142 in./3.60mm	.055 in./1.40mm	1/16 - 4 in.	40 lbs.	—	100	**IT4I-C**
UV Black Nylon							100	**IT4I-C0**

*1M, 1_5 & 2I Series

Standard (50 lb.) Ties Natural & UV Black

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Natural Nylon	7.5 in./190mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 1-7/8 in.	50 lbs.	MS3367-1-9	100	**IT2S-C**
UV Black Nylon						MS3367-1-0	100	**IT2S-C0**
Natural Nylon	11.2 in./284mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 3-1/16 in.	50 lbs.	MS3367-7-9	100	**IT3S-C**
UV Black Nylon						MS3367-7-0	100	**IT3S-C0**
Natural Nylon	14.5 in./368mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 4-1/8 in.	50 lbs.	MS3367-2-9	100	**IT4S-C**
UV Black Nylon						MS3367-2-0	100	**IT4S-C0**
Natural Nylon	17.0 in./432mm	.190 in./4.82mm	.053 in./1.34mm	1/16 - 4-3/4 in.	50 lbs.	—	100	**IT5S-C**
UV Black Nylon							100	**IT5S-C0**

UL Listed Nylon 6/6 cable ties are suitable for use in Air Handling Spaces (Plenums) in accordance with Section 300-22(C) & (D) of the National Electrical Code and Rules 12-010 (3), (4) & (5) and 12-020 of the Canadian Electrical Code, Part 1.

*2S, 3S & 4S Series

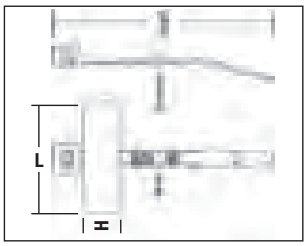
Light Heavy-Duty, Heavy-Duty & Extra Heavy-Duty Ties Natural & UV Black

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Natural Nylon	8.7/220.9mm	.300 in./7.62mm	.076 in./1.93mm	2-1/16 in.	120 lbs.	—	100	**IT2LH-C**
UV Black Nylon							100	**IT2LH-C0**
Natural Nylon	15.1 in./384mm	.300 in./7.62mm	.075 in./1.90mm	3/16-4-1/16 in.	120 lbs.	MS3367-3-9	50	**IT4LH-L**
UV Black Nylon						MS3367-3-0	50	**IT4LH-L0**
Natural Nylon	17.8 in./451mm	.300 in./7.62mm	.075 in./1.90mm	3/16-5-1/4 in.	120 lbs.	—	50	**IT5LH-L**
UV Black Nylon							50	**IT5LH-L0**
Natural Nylon	24.2 in./614mm	.300 in./7.62mm	.075 in./1.90mm	3/16-7 in.	120 lbs.	—	50	**IT7LH-L**
UV Black Nylon							50	**IT7LH-L0**
Natural Nylon	25.3 in./642mm	.340 in./8.64mm	.090 in./2.29mm	3/16-7-3/16 in.	175 lbs.	MS3367-10-9	50	**IT7H-L**
UV Black Nylon						MS3367-10-0	50	**IT7H-L0**
Natural Nylon	37.1 in./942mm	.340 in./8.64mm	.090 in./2.29mm	3/16-11 in.	175 lbs.	MS3367-13-9	50	**IT11H-L**
UV Black Nylon						MS3367-13-0	50	**IT11H-L0**
Natural Nylon	47.8 in./ 1214mm	.340 in./8.64mm	.090 in./2.29mm	3/8-14-1/2 in.	175 lbs.	MS3367-16-9	50	**IT14H-L**
UV Black Nylon						MS3367-16-0	50	**IT14H-L0**
UV Black Nylon	22.8 in./579mm	.50 in./12.7mm	.080 in./2.03mm	3/16-6 in.	250 lbs.	—	100	**IT6EH-C0**

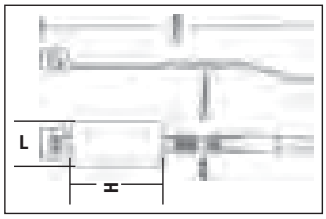
*4LH, 7H, 10H, 11H, 14H Series

Identification Ties

- Write-on surface
- Bundle and identify at the same time



IT1MID-C

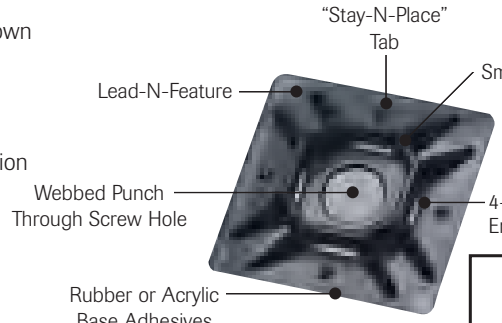


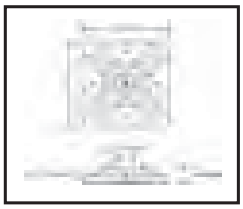
IT2SID-C & IT4SID-C

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Pad Size (H X L)	Qty./Bag	Cat. No.
Natural Nylon	4.0 in./102mm	.100 in./2.54mm	.044 in./1.12mm	1/16 - 7/8 in.	18 lbs.	5/16 in. x 1 in.	100	**IT1MID-C**
Natural Nylon	7.8 in./200mm	.181 in./4.59mm	.055 in./1.40mm	1/16 - 1-7/8 in.	50 lbs.	1-1/8 in. x 1/2 in.	100	**IT2SID-C**

Mounting Pads

- Patented stay-in-place tab keeps cable ties from sliding down during vertical applications
- Lead-N-Feature allows easy insertion for hard to reach applications
- Four-sided entry slots save time during placement orientation
- Smooth radius cradle eliminates possible damage to cable while providing stable support
- Webbed punch through screw hole allows maximum adhesive surface area, along with easy insertion of mechanical fasteners
- Low Profile is essential in confined spaces
- UL recognized, rubber adhesive positioning device



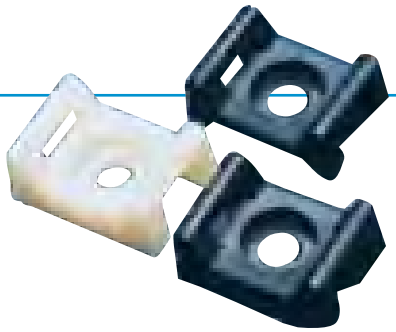


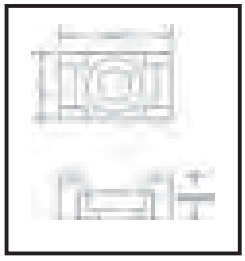
Low Profile

Description	Width	Height	Slot Height	Slot Width	Screw Size	Qty./Bag	Cat. No.
Natural Nylon	.74 in./19mm	.19 in./4.8mm	.05 in./1.2mm	.20 in./5.1mm	No. 4	100	**IT750MP-C**
UV Black Nylon						100	**IT750MP-C0**
Natural Nylon	.99 in./25mm	.20 in./5.0mm	.06 in./1.5mm	.20 in./5.1mm	No. 6	100	**IT1000MP-C**
UV Black Nylon						100	**IT1000MP-C0**

Screw Mounting Bases - Standard

- Deep cradle design provides minimum support for larger bundles and tubing
- Recessed screw hole allows cable ties to easily pass over screw head





Description	Length	Width	Height	Slot Height	Slot Width	Screw Size	Qty./Bag	Cat. No.
Screw Mount Natural Nylon	.590 in./15mm	.370 in./9.40mm	.270 in./6.86mm	.062 in./1.59mm	.190 in./4.83mm	No. 6	100	**IT1SMB-C**
Screw Mount UV Black Nylon							100	**IT1SMB-C0**
Screw Mount Natural Nylon	.870 in./22mm	.640 in./16.26mm	.380 in./9.65mm	.125 in./3.18mm	.300 in./7.62mm	1/4 in.	100	**IT2SMB-C**
Screw Mount UV Black Nylon							100	**IT2SMB-C0**

Wire Marker Booklets

- Convenient pocket-size booklets
- Plastic-impregnated cloth construction for long-lasting durability
- Resists abrasion, moisture, dirt and oil
- Perforated 1/4 in. x 1-1/2 in. markers can be separated into half-length sizes
- Non-smear black legend ensures high visibility
- Self-sticking on wire and cable
- For applications above or below ground

Specifications:
Temperature Range: -40°F to 180°F (-40°C to 82°C)
Adhesion: 45 oz./in. width ultimate

Legend Assortments*

Legend	Qty.	Cat. No.
0-9	45 Markers each	**44-101**
A-Z 0-15 +, –, /	10 Markers each	**44-102**
L1, L2, L3	150 Markers each	**44-108**

Ten pages per booklet with each page bearing the legend assortment indicated. All booklets contain 450 wire markers and 450 terminal markers.

Write-On Marker Booklets*

- Use for developing personal identification systems
- Surface accepts pen, pencil or rubber stamp

Marker Size* (In.)	Markers per page	Pages per book	Cat. No.
1 x 2-1/2	6	10	**44-151**
1 x 5	3	10	**44-152**

*Write-on area for 2-1/2 in. markers is 3/4 in. x 1 in. Write-on area for 5 in. markers is 1 in. x 1 in.
Adhesion: .25 oz./in. width ultimate

Cable-Tie Installation Tool

- Consistent, positive tension
- Flush cut-off leaves no projections to damage nearby wires or components
- Lightweight economy model for smaller jobs

Description	Cat. No.
Economy – use w/intermediate & standard ties*	**BCTT-200**

*Colour may vary

POWER TOOL ACCESSORIES

C

Carbide Tipped Hole Cutters

TKO cutters offer the most efficient and clean cutter replacement for traditional knockouts, by making smooth holes in a fraction of the time at a fraction of the cost.

Specifically designed to cut sheet metal, TKO cutters will even cut stainless steel with fine grained, carbide tips. The innovative design includes the exclusive SmoothStart™ replaceable pilot drill, which guides the cutter to the surface, avoiding cutter damage and providing smoother holes. An integral overdrill flange prevents cutter penetration beyond the sheet metal.

When it comes to quality, performance and durability, IDEAL is the professional's choice for carbide tipped hole cutters.

IDEAL TKO™

Competitor

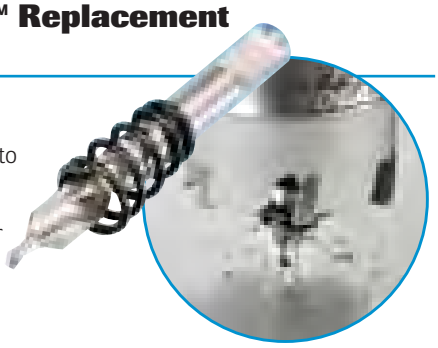
IDEAL provides smoother, more precise holes than competitors (holes cut with 29mm / 1-1/8 in. cutters)

Carbide-Tipped Hole Cutters

Hole Size mm	Hole Size Inches	Cat. No.
22mm	7/8	**36-301**
25mm	1	**36-302**
29mm	1-1/8	**36-303**
32mm	1-1/4	**36-304**
35mm	1-3/8	**36-305**
37mm	1-7/16	**36-306**
38mm	1-1/2	**36-307**
44mm	1-3/4	**36-308**
51mm	2	**36-309**
64 mm	2-1/2	**36-310**
73mm	2-7/8	**36-315**
89mm	3-1/2	**36-316**
102mm	4	**36-317**
114mm	4-1/2	**36-318**

SmoothStart™ Replacement Pilot Drill

- Exclusive! SmoothStart™ pilot guides cutter to surface providing smoother holes and avoiding cutter damage.



Description	Cat. No.
SmoothStart™ Replacement Pilot Drill	**36-312**

4-Piece Kit

- Includes the three most common sizes along with a spare SmoothStart™ pilot bit and a convenient carrying case

Description	Cat. No.
4-Piece Carbide Hole Cutter Kit — Includes SmoothStart™ Replacement Tip, 22 mm / 7/8 in., 29 mm / 1-1/8 in., 35 mm / 1-3/8 in.	**36-311**

Integrated overdrill flange prevents penetration beyond the sheet metal.

TKO™ With SmoothStart™ Pilot

Carbide Tipped Hole Cutters

Carbide tips cut over 200 holes through stainless steel, and outperform HSS cutters and bi-metal hole saws in sheet steel

Integral arbor provides smoother, more accurate holes than hole saws or two-piece carbide-tipped cutters

Integrated overdrill flange prevents penetration beyond the sheet metal

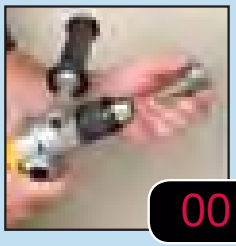
Ejection spring effortlessly ejects slug

Exclusive SmoothStart™ pilot drill guides cutter

See how IDEAL TKO can save time...

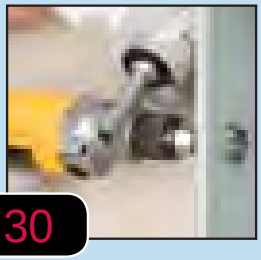
Total time using the IDEAL TKO™

30 Seconds



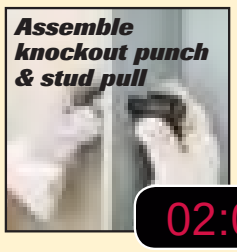
Chuck Cutter

Drill hole & store



Total time using the competitors' knockout tool

More than 6 Minutes



Imperial Step Drill Bits

Trust IDEAL step drill bits for precise, repetitive drilling through the toughest materials including brass, carbon steel, cast iron, stainless steel, and more.

These tough and reliable tools are constructed with a rugged titanium nitrite exterior coating. Each step is gradually blended to ease stepping through hole sizes; reducing the need to keep changing drill bits, which speeds up the fabrication process.

Improved Split-Point tip design eliminates the need for a starter hole or punch and delivers three times faster starts, saving valuable time. The double-fluted design provides balanced cuts and cooler operation.

Drill Diameter Sizes (In.)	No. of Hole Sizes	Step Increments (In.)	Step Thickness (In.)	Shank Dia. (In.)	Cat. No.
1/8 to 1/2	13	1/32	1/8	1/4	**35-511**
1/4 to 3/4	9	1/16	1/8	3/8	**35-512**
1/4 to 7/8	11	1/16	1/16	3/8	**35-513**
1/2 to 1	8	1/16	1/8	3/8	**35-514***
1/4 to 1-1/8	16	1/16	1/16	3/8	**35-515**
3/16 to 1/2	6	1/16	3/8	1/4	**35-516**
1/4 to 1-3/8	10	1/32	1/16 to 1/4	3/8	**35-517**

**Requires pilot holes.*

Electrician's Step Bit Kit

- Durable blow-moulded case securely holds and protects bits
- Kit includes four step bits (35-511, 35-513, 35-515 and 35-517)
- Kit provides a solution for every electrical hole size between 1/8 in. and 1-3/8 in.

Description	Cat. No.
Electrician's Step Drill Bit Kit	**35-520**

Quick Change Step Bits

GOOD

- Split-point tip lasts longer and starts faster than competition
- High speed tool steel
- Double-tempered for superior tip life
- Double fluted and blended radius steps for smooth drilling
- 1/4" Quick change shank

Drill Diameter Sizes (In.)	No. of Hole Sizes	Step Increments (In.)	Step Thickness (In.)	Shank Dia. (In.)	Cat. No.
1/8 to 1/2	13	1/16	1/8	1/4	**35-521**
1/4 to 7/8	11		1/16		**35-522**
1/4 to 1-1/8	16				**35-523**
Description					**Cat. No.**
3-Piece Quick Change Step Drill Bit Kit (35-521, 35-522, 35-523)					**35-524**

TRI-BORE™

Tri-Bore™ Multi-Purpose Hole Saw

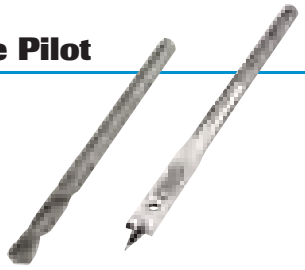
- Massive carbide tips designed to cut wood with nails, cement board, composite enclosures, ceiling tile and more!
- Faster than self-feed bits in wood
- Faster than carbide grip in abrasive materials
- Available in all popular sizes

Carbide teeth for wood with nails, cement board, composite enclosures and other abrasive materials.

Rugged construction for extra life

Deep gullets for easy plug removal

Spade Bit & Carbide Pilot



Cat. No.	Description	Application
36-367*	Spade Bit	Wood boring
36-368*	Carbide Pilot	Abrasive material boring

Sold separately.

Cat. No.	Hole Size mm	Hole Size Inches
36-350	35mm	1-3/8
36-351	54mm	2-1/8
36-352	57mm	2-1/4
36-353	65mm	2-9/16
36-354	76mm	3
36-355	86mm	3-3/8
36-356	92mm	3-5/8
36-357	102mm	4
36-358	108mm	4-1/4
36-359	105mm	4-1/8
36-360	112mm	4-3/8
36-361	118mm	4-5/8
36-362	137mm	5-3/8
36-363	158mm	6-1/4
36-364	162mm	6-3/8
36-365	168mm	6-5/8
36-366	175mm	6-7/8

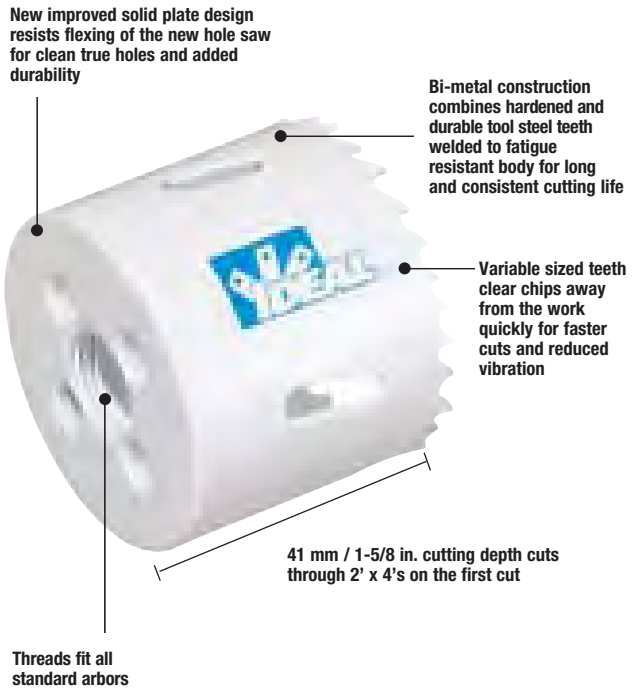
IRONMAN™ Bi-Metal Hole Saws

IRONMAN™ Bi-metal hole saws from IDEAL INDUSTRIES, with re-engineered bi-metal construction, a thick "flex-free" backing plate, and variable sized teeth, IDEAL IRONMAN™ hole saws will rival the cutting speed and longevity of any in the industry.

The bi-metal construction cuts metal, wood and plastics including: tool and stainless steel, nail embedded wood, plywood, and pipe.

An extensive range of hole saws, effective accessories, and kits are available to meet all your cutting needs.

When it comes to quality, performance and durability, IDEAL is the professional's choice for hole saws.


New improved solid plate design resists flexing of the new hole saw for clean true holes and added durability
Bi-metal construction combines hardened and durable tool steel teeth welded to fatigue resistant body for long and consistent cutting life
Variable sized teeth clear chips away from the work quickly for faster cuts and reduced vibration
41 mm / 1-5/8 in. cutting depth cuts through 2' x 4's on the first cut
Threads fit all standard arbors

Saw Diameter (mm)	Saw Diameter (inches)	Cat. No.
16mm	5/8	**35-341**
19mm	3/4	**35-343**
20mm	3/16	**35-344**
22mm	7/8	**35-345**
25mm	1	**35-347**
29mm	1-1/8	**35-349**
32mm	1-1/4	**35-351**
35mm	1-3/8	**35-353**
38mm	1-1/2	**35-355**
40mm	1-9/16	**35-356**
43mm	1-11/19	**35-358**
44mm	1-3/4	**35-359**
48mm	1-7/8	**35-361**
50mm	2	**35-362**
54mm	2-1/8	**35-364**
57mm	2-1/4	**35-365**
60mm	2-3/8	**35-367**
64mm	2-1/2	**35-368**
65mm	2-9/16	**35-369**
67mm	2-5/8	**35-370**
70mm	2-3/4	**35-371**
73mm	2-7/8	**35-372**
76mm	3	**35-373**
79mm	3-1/8	**35-374**
83mm	3-1/4	**35-375**
89mm	3-1/2	**35-377**
92mm	3-5/8	**35-378**
95mm	3-3/4	**35-379**
102mm	4	**35-381**
105mm	4-1/4	**35-383**
111mm	4-3/8	**35-384**
114mm	4-1/2	**35-385**
152mm	6	**35-390**

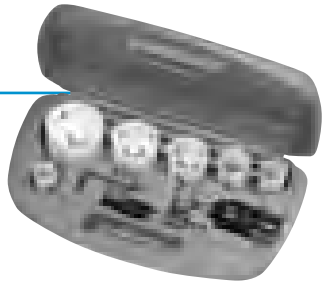
*Other sizes and kits are available - details on request.

Hole Saws

- Thicker, FLEX FREE backing plate for clean true holes and longer tool life
- Improved bi-metal construction for long life and durability
- Variable pitch tooth geometry for fast cutting and reduced vibration
- Cuts all types of machinable metal including stainless steel, wood, nail embedded wood, plastic and fibreboard

Hole Saw Kits

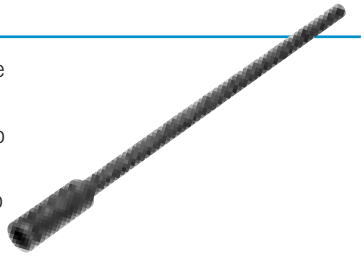
Electrician's Hole Saw Kit



- Reliable 8-piece kit in a durable plastic case

Description	Cat. No.
Hole Saw sizes 22 mm (7/8 in.) 29mm (1-1/8 in.), 35mm (1-3/8 in.), 44mm (1-3/4 in.), 50mm (2 in.) & 64 mm (2-1/2 in.) Also includes arbor models 35-393 & 35-394	35-400

Arbor Extension



- For boring jobs that require a longer reach
- Arbor extensions add up to 45 cm / 18 in. length
- Can easily be connected to IDEAL hole saw arbors

Description	Cat. No.
Extension for 7/16 in. Arbors, 300 mm (12 in.) long	35-396

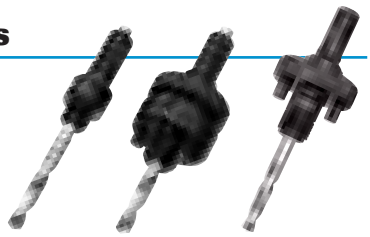
Adjustable Can Light Hole Saws

- Cuts drywall and ceiling tile
- Self-sharpening carbide coated cutting blades
- Includes two dust shields to minimize clean up

Drill not included.

Description	Cat. No.
Adjustable Can Light Hole Saw – 10 sizes from 64 mm (2-1/2 in.) to 178 mm (7 in.)	35-598

Hole Saw Arbors

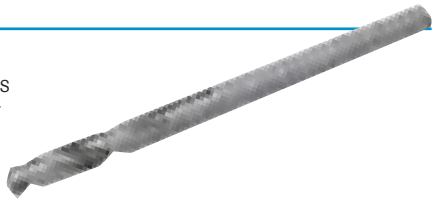


35-393 35-394 35-536

- Durable steel construction means years of long-lasting performance
- Set-screw in body allows easy replacement of the pilot drill
- Save valuable time through this versatile design
- Instantly change hole saws without tools and without having to remove the arbor from the chuck

Shank Size	Thread Size	Chuck Size	Fits Hole Saw Sizes	Cat. No.
11mm / 7/16 in. Hex	1/2 - 20 in.	1/2 in.	Up to 30 mm	35-393
11mm / 7/16 in. Hex	5/8 - 18 in.	1/2 in.	32 mm to 152 mm	35-394
11mm / 7/16 in. Hex	5/8 - 18 in.	1/2 in.	32 mm to 152 mm	35-536

Replacement Pilot Drills for Hole Saw Arbors

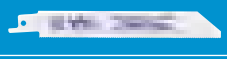
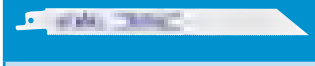
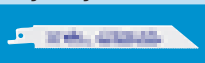
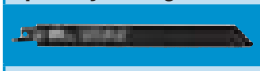


- Split point pilot drills start on contact for faster penetration and less walking.

Description	Cat. No.
114 mm (4-1/2 in.) x 6 mm (1/4 in.) – Fits 35-393 & 35-394 arbors	35-397
83 mm (3-1/4 in.) x 6 mm (1/4 in.) – Fits 35-536 arbor	35-398

Reciprocating Blades

- Bi-metal blades - last up to ten times longer than carbon steel blades
- Flexible spring-back provides long blade life
- Super-hard, high speed steel teeth for a sharp, long-lasting cutting edge
- Shatterproof for tough applications
- Fits all reciprocating saws using 1/2 in. (13 mm) universal shank

	L/W/TH Inches / mm	TPI	Material	Blade Back	Qty.	Application	Cat. No.
Metal Cutting							
	6 x 3/4 x .035 152 x 19 x 19	18	Bi-metal	Straight	5	Structural steel, pipe, conduit, stainless steel: 1/16" - 3/16" (1.6 - 4.3 mm) thick, Non-ferrous metal: 1/16" - 5/16" (1.6 - 8 mm) thick	**36-057**
	8 x 3/4 x .035 203 x 19 x 0.9	18	Bi-metal	Straight	5	Structural steel, pipe, conduit, stainless steel: 1/16" - 3/16" (1.6 - 4.3 mm) thick, Non-ferrous metal: 1/16" - 5/16" (1.6 - 8 mm) thick	**36-060**
Heavy-Duty Metal Cutting							
	6 x 3/4 x .050 152 x 19 x 1.3	18	Bi-metal	Straight	2	Heavy-duty blade for cutting structural steel, pipe, conduit, stainless steel: 1/16" to 3/16" (1.6 - 4.8 mm) thick	**36-085**
	8 x 3/4 x .050 203 x 19 x 1.3	10/14	Bi-metal	Straight	2	Heavy-duty blade for cutting structural steel, pipe, conduit, stainless steel: 1/8" to 1/2" (3 - 13 mm) thick	**36-086**
Wood w/Nails							
	6 x 3/4 x .050 152 x 19 x 1.3	6	Bi-metal	Taper	5	Fast cutting, roughing-in work, nail-embedded wood, remodeling	**36-065**
	9 x 3/4 x .050 229 x 19 x 1.3	6	Bi-metal	Taper	5	Fast cutting, roughing-in work, nail-embedded wood, remodeling	**36-066**
General Purpose							
	6 x 3/4 x .035 152 x 19 x 0.9	10	Bi-metal	Straight	5	Nail embedded wood, metal and non-ferrous metal composition materials & plastics 1/8" - 1/2" (3-13 mm)	**36-075**
Specialty Cutting							
	8 x 3/4 x .050 203 x 19 x 1.3	Grit	Tung. Grit	Straight	2	Iron pipe, fibreglass, reinforced plastics, ceramic tile, stone, slate and brick.	**36-090**
Plaster/Drywall							
	6 x 3/4 x .050 152 x 19 x 1.3	6	Bi-metal	Taper	2	For plaster, drywall, plaster board & lath. Bi-directional cutting	**36-088**

Long-Life Metal Cutting Reciprocating Blades

- Engineered to be the longest lasting, metal cutting blades available
- Long-life blades perform up to three times as many cuts as similar metal cutting blades
- 8% cobalt cutting edge for extreme durability
- Shatterproof bi-metal design
- Longer life for greater value

Long-Life Blades	L/W/TH Inches / mm	TPI	Material	Blade Back	Qty.	Application	Cat. No.
	6 x 3/4 x .035 152 x 19 x 0.9	18	Bi-metal	Straight	5	Long-Life blade for cutting structural steel, pipe, conduit, stainless steel, sheet metal: 1/6" - 3/16" (4.2 - 4.8 mm) thick	**36-043**
	8 x 3/4 x .035 203 x 19 x 0.9	18	Bi-metal	Straight	5	Long-Life blade for cutting structural steel, pipe, conduit, stainless steel, sheet metal: 1/6" - 3/16" (4.2 - 4.8 mm) thick	**36-044**

Progressive Tooth Reciprocating Blades

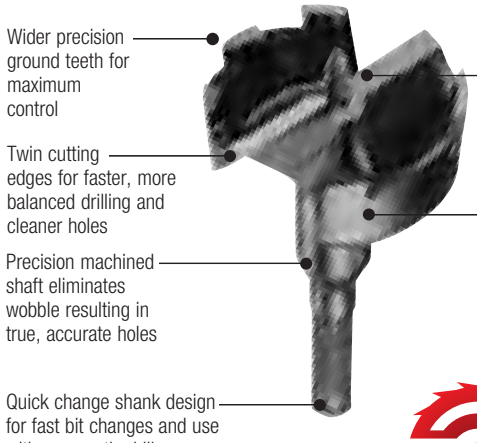
- Specially designed for all purpose cutting
- Cut multiple materials without changing blades
- Tough bi-metal and HCS construction for long life.

Long-Life Blades	L/W/TH Inches / mm	Material	Blade Back	Qty.	Application	Cat. No.
	6 x 3/4 x .035 152 x 19 x 0.9	Progressive	Bi-metal	5	All metal, non-ferrous metal, sheet metal, pipe and other metal materials	**36-056**

BULZ-EYE™ Self Feed Wood Boring Bits

Description	Diameter inches	Diameter mm	Cat.
1 in. Self-Feed Wood Boring Bit	1 in.	25	**36-250**
1-1/4 in. Self-Feed Wood Boring Bit	1-1/4 in.	31	**36-252**
1-1/2 in. Self-Feed Wood Boring Bit	1-1/2 in.	38	**36-254**
2 in. Self-Feed Wood Boring Bit	2 in.	51	**36-256**
3 in. Self-Feed Wood Boring Bit	3 in.	76	**36-260**

* Other sizes available - details on request


Wider precision ground teeth for maximum control
Twin cutting edges for faster, more balanced drilling and cleaner holes
Precision machined shaft eliminates wobble resulting in true, accurate holes
Quick change shank design for fast bit changes and use with pneumatic drills
Robust replaceable lead screw with burr-free threads
Black oxide coated, heat treated and hardened for improved durability

BUL-E-EYE™

Replacement Lead Screws

- Keeps self-feed bits running fast and true
- Easily replaced with hex wrench providing extended drill life and optimum cost-per-hole value

Description	Cat. No.
3-pack small replacement lead screws, fits bit sizes 1 in. - 2-9/16 in. (25mm - 40 mm)	**36-271**
3-pack small replacement lead screws, fits bit sizes 3 in. - 4-5/8 in. (76 mm - 118 mm)	**36-270**

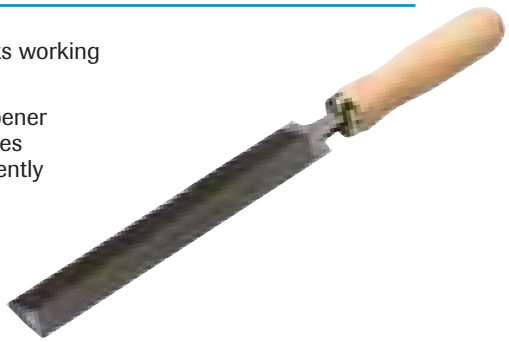
Extension Bars

- Cuts into hard-to-reach areas
- Fits IDEAL Auger Bits

Description	Cat. No.
5-1/2 in. / 140 mm Extension Bar	**36-273**
18 in. / 457 mm Extension Bar	**35-819**

Sharpening File

- Keeps durable bits working like new
- High-grade sharpener hones dulled edges quickly and efficiently



Description	Cat. No.
Sharpening File	**36-272**

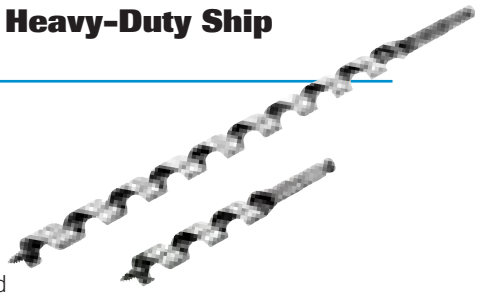
Nailbiter™ Premium Ship Auger Bits

- Dual-Helix construction with twin cutting edges provides faster and smoother drilling action, even through nail-embedded timbers
- Full body, dual induction heat treatment ensures durability, minimises warping and delivers long lasting performance
- Heavy-duty lead screw designed for quick gripping power, superior penetration and extra-long life
- Re-sharpenable for extended tool life

Power Ship Augers

Hole Diameter	Shank	Overall Length Inches (mm)	Twist Length Inches (mm)	Cat. No.
5/8 in. (16 mm)	7/16 in.	7-1/2 (190)	5 (127mm)	**35-810**
3/4 in. (19 mm)	7/16 in.	7-1/2 (190)	5 (127mm)	**35-812**
7/8 in. (22 mm)	7/16 in.	7-1/2 (190)	5 (127mm)	**35-814**
1 in. (25 mm)	7/16 in.	7-1/2 (190)	5 (127mm)	**35-815**
1-1/4 in. (32 mm)	7/16 in.	7-1/2 (190)	5 (127mm)	**35-817**
Hole Diameter	**Shank**	**Overall Length Inches (mm)**	**Twist Length Inches (mm)**	**Cat. No.**
1/2 in. (13 mm)	7/16 in.	18 (457)	15 (381)	**35-820**
5/8 in. (16 mm)	7/16 in.	18 (457)	15 (381)	**35-821**
3/4 in. (19 mm)	7/16 in.	18 (457)	15 (381)	**35-823**
7/8 in. (22 mm)	7/16 in.	18 (457)	15 (381)	**35-825**
1 in. (25 mm)	7/16 in.	18 (457)	15 (381)	**35-827**
1-1/4 in. (32 mm)	7/16 in.	18 (457)	15 (381)	**35-829**

RESI-MASTER™ Heavy-Duty Ship Augers

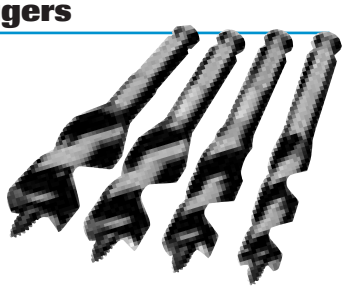


- 62° cutting angle reinforces the cutting edge and provides greater durability
- Hardened lead screw and cutting edge provide increased wear resistance and extended life
- Secondary relief angle evacuates wood chips quickly and prevents auger from jamming
- Oversised cutting head makes hole larger than body of bit for easy ejection from work piece

RESI-MASTER™ Auger

Hole Diameter	Shank	Overall Length Inches (mm)	Twist Length Inches (mm)	Cat. No.
5/8 in. (16 mm)	7/16 in.	7-1/2 (190)	5 (127mm)	**35-892**
3/4 in. (19 mm)	7/16 in.	7-1/2 (190)	5 (127mm)	**35-893**
7/8 in. (22 mm)	7/16 in.	7-1/2 (190)	5 (127mm)	**35-896**
1 in. (25 mm)	7/16 in.	7-1/2 (190)	5 (127mm)	**35-898**
1-1/4 in. (32 m)	7/16 in.	7-1/2 (190)	5 (127mm)	**35-732**
Hole Diameter	**Shank**	**Overall Length Inches (mm)**	**Twist Length Inchs (mm)**	**Cat. No.**
1/2 in. (13 mm)	7/16 in.	18 (457)	15 (381)	**35-726**
5/8 in. (16 mm)	7/16 in.	18 (457)	15 (381)	**35-971**
3/4 in. (19 mm)	7/16 in.	18 (457)	15 (381)	**35-972**
7/8 in. (22 mm)	7/16 in.	18 (457)	15 (381)	**35-976**
1 in. (25 mm)	7/16 in.	18 (457)	15 (381)	**35-978**
1-1/4 in. (32 mm)	7/16 in.	18 (457)	15 (381)	**35-729**

Mini™ Utility Bit Augers



- Designed to fit between wall studs when used with common drills
- Eliminates the need for expensive right angle drills

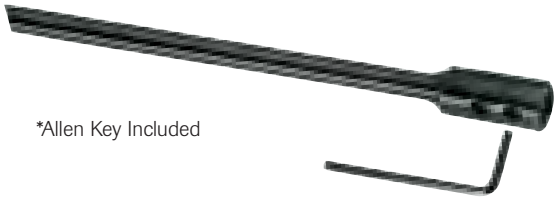
Mini™ Augers

Hole Diameter	Shank	Overall Length Inches (mm)	Twist Length Inches (mm)	Cat. No.
5/8 in. (16 mm)	7/16 in.	4-3/4 (121 mm)	2-1/2 (64)	**35-862**
3/4 in.(19 mm)	7/16 in.	4-3/4 (121 mm)	2-1/2 (64)	**35-864**
7/8 in. (22 mm)	7/16 in.	4-3/4 (121 mm)	2-1/2 (64)	**35-866**

Mini Power Ship Augers

Hole Diameter	Shank	Overall Length Inches (mm)	Twist Length Inches (mm)	Cat. No.
1 in. (25 mm)	7/16 in.	4-3/4 (121 mm)	2-1/2 (64)	**35-868**

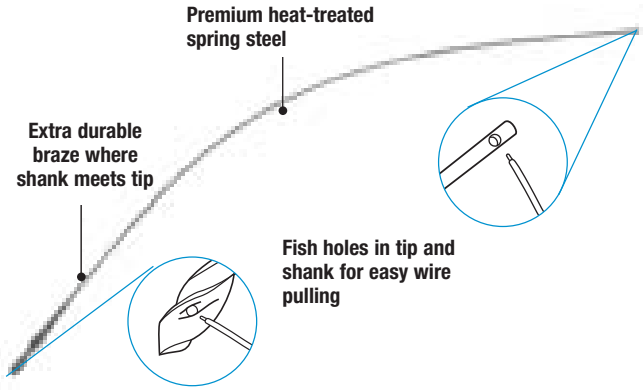
Auger Bit Extensions



*Allen Key Included

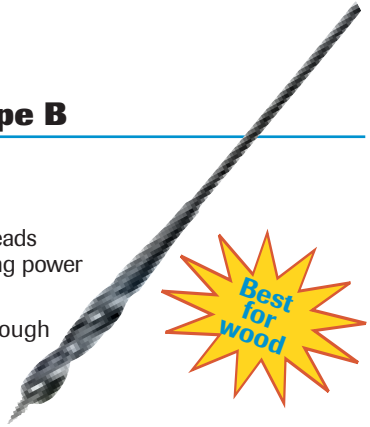
Description	Cat. No.
Auger Bit Extension - 7/16 in. / 11 mm	**35-819**
Auger Bit Extension - 5-1/2 in. / 140 mm	**36-273**

Flexible Drill Bits


Premium heat-treated spring steel
Extra durable braze where shank meets tip
Fish holes in tip and shank for easy wire pulling

Screw Point Flexible Bits, Type B

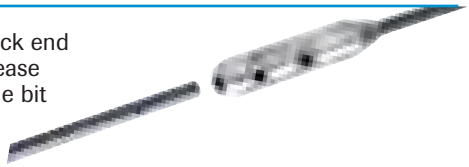
- Fast and aggressive, self-starting bit
- Ultra-sharp ground threads provide increased pulling power through obstructions
- Designed for easy to tough wood drilling



Description	Shank mm	Shank in.	Cat. No.
3/8 in. x 54 in. (9.5 mm x 1372 mm) Screw Point Flexible Bit	4.76	3/16	**90-082**
1/2 in. x 54 in. (13 mm x 1372 mm) Screw Point Flexible Bit	4.76	3/16	**90-085**
3/4 in. x 54 in. (19 mm x 1372 mm) Screw Point Flexible Bit	6.3	1/4	**90-091**

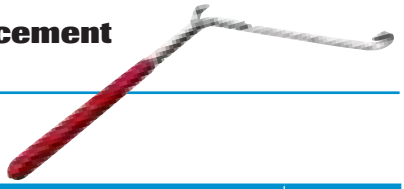
Flexible Bit Extensions

- Connect to chuck end of shaft to increase the length of the bit



Description	Shank mm	Shank in.	Cat. No.
3/16 in. x 36 in. (4.8 mm x 914 mm) Flexible Bit Extension	4.76	3/16	**90-170**
1/4 in. x 36 in. (6.3 mm x 914 mm) Flexible Bit Extension	6.3	1/4	**90-173**

Flexible Bit Placement Tool



Description	Cat. No.
Flexible Bit Placement Tool	**90-176**

Power-Spade™ Spade / Flat Bits

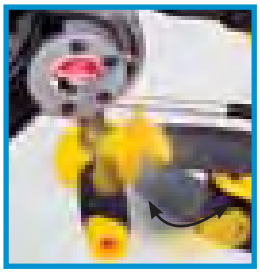
- The most innovative and fastest spade bit ever!
- Smooth and effortless drilling

Description	Cat. No.
1/2 in. / 13 mm	**36-413**
5/8 in. / 16 mm	**36-415**
3/4 in. / 19 mm	**36-417**
7/8 in. / 22 mm	**36-419**
1 in. / 25 mm	**36-421**
1-1/4 in. / 32 mm	**36-423**
4-pc. Kit with pouch 5/8 in. (16 mm), 3/4 in. (19 mm), 7/8 in. (22 mm) & 1 in. (25 mm)	**36-432**

PowerBlade™ Cable Cutter

- Extremely versatile: fits almost any drill (12V minimum)
- Cuts copper up to 5 cm (2 in.) diameter or 380mm² (750 MCM) or aluminum up to 5 cm (2 in.) diameter or 507 mm² (1000 MCM)
- Heavy-duty gears and specially hardened blades for professional quality
- Rounded blade design minimises cable distortion during cutting
- No need to mess with battery packs or special chargers; this tool works with the drill you already carry!

(Drill not included)



(Folding handle for storage.)

Description	Cat. No.
PowerBlade™ Cable Cutter	**35-078**
PowerBlade™ Replacement Handle	**K-8947R**
PowerBlade™ Replacement Blades (pair)	**K-8906R**
PowerBlade™ Replacement Torque Arm Assembly	**K-8909**
PowerBlade™ Replacement Carrying Case	**K-8926**

*Max. Jaw Opening - 5 cm (2 in.)

TEST & MEASUREMENT

D

Clamp Meter Selection Guide

CLAMP METER	740 Series		760 Series		770 Series	
	61-744	61-746	61-763	61-765	61-773	61-775
MEASUREMENT FUNCTIONS						
AC Voltage	•	•	•	•	•	•
DC Voltage	•	•	•	•	•	•
AC Current	•	•	•	•	•	•
DC Current				•		•
Resistance	•	•	•	•	•	•
Audible Continuity	•	•	•	•	•	•
Capacitance			•	•	•	•
Frequency			•	•	•	•
FEATURES						
Display Type (Digital)	D	D	D	D	D	D
AC Current Capacity	600	600	660	660	1000	1000
DC Current Capacity				660		1000
True RMS		•	•	•	•	•
Auto/Manual Ranging	•	•	•	•	•	•
Data Hold	•	•	•	•	•	•
Max Hold						
Peak Hold			•	•	•	•
Min/Max			•	•	•	•
DCA Zero				•		•
Auto Power Off	•	•	•	•	•	•
Non-Contact Voltage Indication	•	•				
Backlight			•	•	•	•
Low Battery Indication	•	•	•	•	•	•
High Voltage Warning			•	•	•	•
Overload Protection on all Ranges	•	•	•	•	•	•
Conductor Size – Inches (mm)	1.5" (38)	1.5" (38)	1.4" (36)	1.4" (36)	2.0" (51)	2.0" (51)
Warranty (years)	2	2	2	2	2	2
CERTIFICATIONS						
UL 61010 Listed c UL us	•	•	•	•	•	•
CAT III, 100V/CAT IV 600V	III	III	IV	IV	IV	IV
CE	•	•	•	•	•	•

Multimeter Selection Guide

MULTIMETER	310 Series		340 Series		480 Series		490 Series		600
	61-310	61-312	61-340	61-342	61-484	61-486	61-497	61-498	61-605
MEASUREMENT FUNCTIONS									
AC & DC Voltage	•	•	•	•	•	•	•	•	•
AC Current	•	•	•	•	•	•	•	•	
DC Current	•	•	•	•	•	•	•	•	
Resistance	•	•	•	•	•	•	•	•	•
LV Resistance					•	•	•	•	
Audible Continuity	•	•	•	•	•	•	•	•	•
Diode Test	•	•	•	•	•	•	•	•	•
Capacitance		•	•	•	•	•	•	•	
Frequency		•	•	•	•	•	•	•	
Temperature	•	•	•	•		•	•	•	
Duty Factor			•	•			•	•	
Battery Test	•								
Decibels							•	•	
FEATURES									
Display Type (**D**igital or **A**nalogue)	D	D	D	D	D	D	D	D	D
True RMS				•	•	•	•	•	
Auto/Manual Ranging		•	•	•	•	•	•	•	•
Non-Contact Voltage Detection					•	•			
Data Hold / **A**uto Hold	D	D	D	D	D	D	A	A	D
Min/Max			•	•	•	•	•	•	
Min/Max/Avg			•	•	•	•	•	•	
Peak Min/Max					•	•	•	•	
Relative Mode							•	•	
High Speed Analogue Bar Graph					•	•	•	•	
Auto Power Off			•	•	•	•	•	•	•
Backlight			•	•	•	•	•	•	•
Low Battery Indication			•	•	•	•	•	•	•
Dual Display							•	•	•
Overload Protection on all Ranges	•	•	•	•	•	•	•	•	•
Data Logging							•	•	
Data Acquisition							•	•	
Memory Storage & Recall							•	•	
Optical USB Interface							•	•	
ProVision™ II Software							•	•	
Warranty (years)	2	2	2	2	2	2	2	2	2
CERTIFICATIONS									
UL 61010 Listed c UL us	•	•	•	•	•	•	•	•	•
CAT Rating	II	II	III	III	IV	IV	IV	IV	II
CE	•	•	•	•	•	•	•	•	•

TightSight® Clamp Meters 1000 & 660 Amp (770 & 760 Series)

- TightSight® bottom display
- Tapered jaws with hook tip
- Measures AC current
- True RMS
- AC/DC Voltage
- Capacitance
- Audible continuity
- Frequency via clamp head or test leads
- Resistance
- High frequency rejection*
- Peak hold
- Max/min hold
- Data hold
- Selectable audible and visual voltage alerts on AC/DC voltage functions
- Selectable auto power off
- Backlit display
- Low battery indicator
- 2-year warranty

*Reads accurately on noisy electrical circuits.

Description	Cat. No.
1000AAC Clamp Meter w/ differentiating features	**61-773**
1000A AC/DC Clamp Meter	**61-775**
660AAC Clamp Meter	**61-763**
660A AC/DC Clamp Meter	**61-765**

Includes: Carrying Case and Test Leads w/Crocodile Clips.

1000A Clamp (61-773)

660A Clamp (61-763)

Specifications	Range & Resolution				Accuracy
	61-773	61-775	61-763	61-765	
AC Current	0.0-999.9A		0.0-660.0A		2.0%
DC Current	—	0.0-999.9A	—	0.0-660.0A	2.0%
AC Voltage	0.0-750.0V				1.0%
DC Voltage	0.0-999.9V				1.0%
Resistance	0.0-999.9Ω				1.5%
Capacitance	0.0-999.9µF				5.0%
Continuity	0.0-999.9Ω				Audible @ <30Ω
Frequency	20.0-400.0Hz				0.5%
Jaw Size	2" (51mm)		1.42" (36mm)		—

Clamp-Pro™ Clamp Meters 600 Amp (740 Series)

- Measures up to 600AAC
- Non-contact voltage indicator (70V-600VAC)
- Continuity
- Tapered jaws with hook tip
- Auto/manual ranging
- Data hold
- Auto power off
- Low battery indicator
- 2-year warranty

61-744

Description	Cat. No.
600A Clamp Meter w/ TRMS	**61-746**
600A Clamp Meter	**61-744**

Includes: Carrying Case and Test Leads.

Specifications	Range & Resolution	Accuracy
		61-744 & 61-746
AC Current	40.00/400.0/600A	1.7%
AC Voltage	400.0/600 V	1.2%
DC Voltage	400.0/600 V	0.5%
Resistance	400.0/4.000k/ 40.00k 400.0k/4.000M/40.00M Ω	1.0%

Jaw opening is 1.25" (32mm).

Compact jaw for use in tight locations.

Split-Jaw™ Smart Meter

- Measures 0.9-200AAC
- Measures 1.3-750VAC
- Measures 2.1-1000VDC
- Measures 0.0-9999Ω
- Audible continuity
- Data hold
- Integral lead storage
- Replaceable test leads
- Auto power off
- Low battery indication
- 2-year warranty

Description	Cat. No.
Split-Jaw™ Smart Meter	**61-096**

Includes: Test Leads.

Specifications

61-096		
AC Voltage	1.3 - 750 V	1.5%
DC Voltage	1.8 - 1000 V -0.6 - 1000 V	1.0%
AC Current	0.6 - 200.0A	3.0%
Resistance	0 - 2000 Ω	1.0%

*Note: Jaw opening is 0.6 in. (16mm) - up to 1/0 copper cable.

Industrial-Grade Multimeters (490 Series)

- True RMS
- Data acquisition
- Data logging
- Data storage
- Auto AC/DC voltage and current mode w/frequency indication
- High voltage indicator
- Frequency
- Temperature
- High frequency rejection mode*
- Auto selection for resistance/continuity/ diode/capacitance
- Auto hold
- Peak hold
- dBm/dB measurement
- Relative mode
- Min/Max/Avg
- Dual display
- Duty factor
- Auto power off
- Auto sensing backlight
- Low battery indicator
- USB cable and software included
- 2-year warranty

*Reads accurately on noisy electrical circuits.

61-498

Description	Cat. No.
Digital Multimeter, 0.015% DCV Accuracy	61-498
Digital Multimeter, 0.03% DCV Accuracy	61-497

Accessories

Includes	
Test Leads w/Crocodile Clips	TL-497
Magnetic Strap	61-565
USB Cable	61-902
ProVision™ II Software	61-906
K-Type Thermocouple	61-461
Thermocouple Adapter	61-465
Carrying Case	C-230

CAT IV 600V CAT III 1000V

c UL us CE N12966

Specifications **Range & Resolution** **Accuracy**

	61-497	61-498	61-497	61-498
AC Voltage	40.000m/400.00m/ 4.0000/40.000/400.00/1000.0 V	100.000m/1000.00m/ 10.0000/100.000/1000.00V	±0.7%	±0.40%
DC Voltage	40.000m/400.00m/ 4.0000/40.000/400.00/1000.0 V	100.000m/1000.00m/ 10.0000/100.000/1000.00V	±0.03%	±0.015%
AC Current	40.000m/400.00m/10.000 A	10.0000m/100.000m/10.0000A	±0.8%	±0.7%
DC Current	40.000m/400.00m/10.000 A	10.0000m/100.000m/10.0000A	±0.2%	±0.1%
Resistance	400.00/4.0000k/40.000k/400.00k/ 4.0000M/40.000M Ω	1000.00/10.0000k/100.000k/1000.00k 10.0000M/40.000M Ω	0.6%	0.6%
Capacitance	4.000n/40.00n/400.0n/4.000µ/ 40.00µ/ 400.0µ/4.000m/40.00mF	4.000n/40.00n/400.0n/4.000µ/40.00µ/ 400.0µ/4.000m/40.00mF	0.9%	0.9%
Diode Test	2.000 V	0.400 V - 0.800 V	±1.5%	±1.5%
Frequency	40.000/400.00/4.0000k/40.000k/400 .00k/ 4.0000M Hz	40.000/400.00/4.0000k/40.000k/40 0.00k/ 4.0000M Hz	±0.002%	±0.002%
Duty Factor	20% - 80%	20% - 80%	±0.1%	±0.1%
Temperature	-328° F to 2192° F (-200° C TO 1200° C)	-328° F to 2192° F (-200° C TO 1200° C)	±1.0% +2°F/1°C	±1.0% +2°F/1°C

Commercial-Grade Multimeters (480 Series)

- True RMS
- Auto AC/DC voltage detect w/low impedance (Auto - VLoZ)
- Capacitance
- Frequency
- Analogue bar graph
- Min/max
- Non-contact voltage detection
- Low battery indication
- Auto power off
- 2-year warranty

61-486

Description	Cat. No.
Digital Multimeter w/peak hold, temperature, includes thermocouple	61-486
Digital Multimeter	61-484

Include: Test Leads & Carrying Case.

c UL us CE N12966

CAT IV 600V CAT III 1000V

Specifications **Range & Resolution** **Accuracy**

	61-484	61-486	61-484	61-486
AC Voltage	6.000/60.00/600.0/1000.0 V		1.0%	0.80%
AC mV	600.0 mV		1.5%	1.2%
DC Voltage	6.000/60.00/600.0/1000.0 V		0.1%	0.08%
DC mV	600.0 mV	60.00/600.0 mV		
AC Current	60.00m/600.0m/6.000/10.00A		1.5%	1.2%
DC Current	60.00m/600.0m/6.000/10.00A		1.0%	0.80%
Resistance	600.0/6.000k/60.00k/600.0k/6.000M/40.0 0M Ω		1.0%	0.80%
Capacitance	1nF to 10.mF		0.1%	
Frequency	99.9 to 100.0k Hz		0.1%	
Temperature	—	-40°F to 752°F (-40°C to 400°C)	1.0%	

Resi-Pro™ Multimeters (310 Series)

- Voltage
- Current
- Resistance
- Audible continuity
- Temperature
- Data hold
- Diode test
- Large numbers displayed
- 2-year warranty

Description	Cat. No.
Resi-Pro™ Meter w/Auto Ranging, AC/DC Current, Capacitance, Frequency, Auto Power Off, Low Battery Indication	61-312
Resi-Pro™ Meter w/Manual Ranging, Tests Batteries	61-310

Includes: Test Leads and Thermocouple.

Specifications	Range & Resolution	Accuracy	Range & Resolution	Accuracy
	61-310		61-312	
AC Voltage	200.0/600 V	1.2%	4.000/40.00/400.0/600 V	1.2%
DC Voltage	200.0m/2.000/20.00/200.0/600 V	0.5%	400.0m/4.000/40.00/400.0/600 V	0.5%
Current	200.0m/10.00 ADC	1.5%	400.0µ/4000µ/40.00m/400.0m/10.00A AC/DC	1.5%
Resistance	200.0/2.000k/20.00k/200.0k/20.0 0M Ω	1.0%	400.0/4.000k/40.00k/400.0k/4.000M/40.00M Ω	1.0%
Capacitance	—	—	40.00n/400.0n/4.000µ/40.00µ/400.0µ F	3.0%
Frequency	—	—	10.00/100.0/1.000k/10.00k/100.0k/1.000M/10.0 0M Hz	0.3%
Temperature	-4-1382°F (-20-750°C)	2.5%	-4-1382°F (-20-750°C)	2.5%

Test-Pro® Multimeters (340 Series)

- Capacitance
- Frequency
- Temperature
- Voltage
- Current
- Resistance
- Audible continuity
- Relative mode
- Backlight
- Min/max
- Data hold
- Low battery indicator
- Auto power off
- 2-year warranty

Description	Cat. No.
Test-Pro® Multimeter w/TRMS	61-342
Test-Pro® Multimeter	61-340

Includes: Test Leads and Thermocouple.

Specifications	Range & Resolution	Accuracy
		61-340 & 61-342
AC Voltage	4.000/40.00/400.0/600 V	1.5%
DC Voltage	400.0m/4.000/40.00/400.0/600 V	0.5%
Current	400.0µ/4000µ/40.00m/400.0m/4.000/10.00A AC/DC	1.5%
Resistance	400.0/4.000k/40.00k/400.0k/4.000M/40.00M Ω	1.0%
Capacitance	40.00n/400.0n/4.000µ/ 40.00µ/400.0µ F	3.0%
Frequency	10.000/100.00/1.000k/10.00k/100.0k/1.000M/4.00 0M Hz	0.3%
Temperature	-4° F to 1382° F (-20° C to 750° C)	3.0%

Pocket Meter

- Convenient pocket size
- Built-in test stand
- Audible continuity
- Auto power off
- Test lead storage
- 2-year warranty

Description	Cat. No.
Pocket Meter	61-605

Includes: Test Leads.

Specifications	Range & Resolution	Accuracy
	61-605	
AC Voltage	200.0m/2.000/20.00/200.0/600 V	4.0%
DC Voltage	200.0m/2.000/20.00/200.0/600 V	2.0%
Resistance	200.0/2.000k/20.00k/200.0k/2.000M/20.00M Ω	3.0%

Vol-Con® Elite Digital Voltage Tester

- Tests for AC Voltage from 24-600VAC
- Tests for DC Voltage from 6-220VDC
- Visual and audible warning
- Audible continuity
- Non-contact voltage indication (40-600VAC)
- Low impedance to eliminate ghost voltages
- Low battery indicator
- Replaceable GS38 compliant test leads
- Integral lead storage
- 2-year warranty

Description	Cat. No.
Vol-Con® Elite Digital Voltage Tester	61-090EU

Accessories

Includes	
GS38 Compliant Test Leads	TL-102EU
Optional	
Carrying Case	C-90

c UL us CE N12966 CAT III 1000V

XL-Series Solenoid Voltage Tester

- Rugged and reliable tester
- Vibrates when voltage is present
- Indicates AC/DC voltage level
- Replaceable leads with shielded probe tips
- Bright, long-life LED's and neon indicator lamp
- Dual voltage indication for backup safety
- Compact size
- 2-year warranty

61-086

Description	Cat. No.
Vol-Con® XL Voltage/Continuity Tester, 6-600V AC/DC	61-086

Accessories

Includes	
Standard Test Leads	TL-80
Optional	
Resistor-fused Leads*	TL-82
Padded Nylon Case	C-90
Leather Case	61-010

**Special, current-limiting resistor in each lead acts as a fuse to open in a short-circuit situation.*

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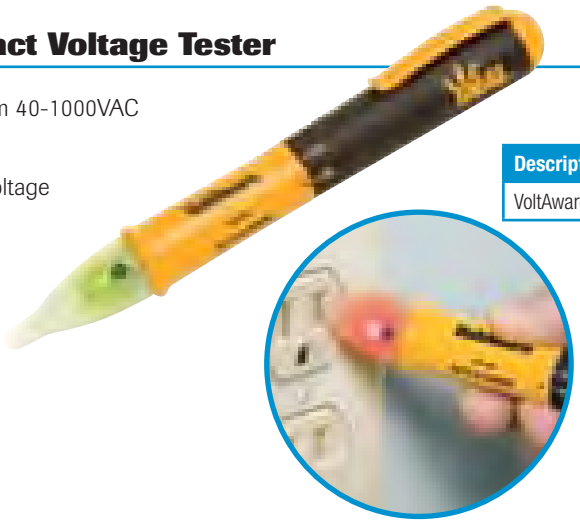
VoltAware™ Non-Contact Voltage Tester

- Indicates presence of voltage from 40-1000VAC
- Visual indication of voltage
- Selectable audible indication of voltage
- Sleek, compact design
- Green LED indicates power on
- Low battery indicator
- Battery replacement (AAA size)
- 2-year warranty



Description	Cat. No.
VoltAware™ Non-Contact Voltage Tester	61-025EU

CAT IV 600V CAT III 1000V

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Convenient button turns audible voltage indication on or off.

Insulation Testers

- Checks new installations for proper insulation
- Checks existing installations and motor windings for breakdowns in insulation
- 2-year warranty

c UL us CE N12966

61-797

61-795

Description	Cat. No.
Insulation Meter w/PI, DAR, Remote Probe	61-797
Insulation Tester	61-795

Accessories

Includes (61-795)	
Test Leads	TL-795
Carrying Case	C-795
Includes (61-797)	
Test Leads	TL-797
Remote Probe	TL-797RP
Carrying Case	C-230

Specifications **Range & Resolution**

	61-795	61-797
Test Voltage	250/500/1000 VDC	50/100/250/500/1000 VDC
Voltage AC/DC	0.1-600.0 V	0.1-600.0 V
Continuity	0.01-20.0 Ω	—
Resistance	0-200.0Ω	—
Insulation Resistance	Up to 4000M Ω	Up to 20G Ω
Earth-Bond Resistance	—	0.01 Ω to 40.00k Ω

Ground Resistance Meters

- Auto ranging
- Auto power off
- Hard case included
- 2-year warranty

CE N12966

61-796

61-920

Description	Cat. No.
Ground Resistance Clamp Meter	61-920
3-Pole Ground Resistance Tester - includes TL-796 lead set kit	61-796
Earth Resistance Lead Set Kit	TL-796

TL-796

Specifications	Range & Resolution	Accuracy	Range & Resolution	Accuracy
	61-920		61-796	
Ground Resistance	0/120/1200 Ω	1.5%	20.00/200.0/2000 Ω	2.0%
Ground Leakage Current	100M/1000M/15/30 A	2.0%	—	—

Digital Light Meter

- Auto or manual ranging
- Measures in four ranges up to 20,000 FC o 200,000 Lux
- +/- 3% basic accuracy
- Data hold mode
- Max. reading mode
- Auto zero adjustment
- Low battery indication
- Auto power off
- Remote sensor with 59 in. (1.5m) cable

CE N12966

Description	Cat. No.
Digital Light Meter	**61-686**

Includes: Carrying Case.

Infrared Thermometer

- Measurement range: -60 to 500° C (-76°F to 932°F)
- Distance spot: 12:1
- Modes: Ave., Difference, Hi/Lo limits w/alarm, Max, Min, Lock
- Emissivity Range: Adjustable from 0.1 to 1
- Precision K-type thermocouple (optional)
- Backlight
- Auto power off
- Low battery indicator
- 2-year warranty

CE N12966

Description	Cat. No.
Infrared Thermometer	**61-685**

Includes: Carrying Case.

Accessories

Optional	
K-type Thermocouple	**61-461**

Specifications	Range & Resolution	Accuracy
	61-685	
Object Temperature	-27 to 932°F (33 to 500°C)	+/- 2% or +/- 4°F (+/- 2°C) of reading whichever is greater
Ambient Temperature	73 +/-5°F (23 +/-3 °C)	

3-Phase/Motor Rotation Tester

- Identifies three-phase sequence
- Indicates motor rotation
- Checks for open phases
- For use up to 600V
- 2-year warranty
- Includes carrying case

CE N12966 CAT III 600V

Description	Cat. No.
3-Phase/Motor Rotation Tester	**61-521**

Open/Closed Circuit Tracers

- Identifies breakers and fuses
- Pinpoints opens and shorts
- Traces wires
- "0-99" display of signal strength
- Audible intensifies in tone/pitch
- Works on energised or de-energised circuits (0 - 600V AC/DC)
- Four modes of sensitivity – search high, search low, trace and breaker
- Peak bar graph
- 2-year warranty

61-958 Pictured

Description	Cat. No.
Kit Includes: Rotating Display, Inductive Clamp and Battery Pack	**61-958**
Kit Includes: Rotating Display	**61-956**
Kit Includes: Standard Display	**61-954**

Accessories

Includes	
Fuse – High-energy, Fast-acting, 1A/1000V	**F-958**
Magnetic Strap	**61-565**
Tracer Test Lead Set (includes 1-6 below)	**TL-956**
1. Outlet Plug Adaptor for Transmitter	**TLOP-956**
2. Blade Prongs for Lead Adaptors (2/set)	**TLBP-956**
3. Ground Prong for Lead Adaptor	**TLGP-956**
4. Crocodile Clips for Lead Adaptors (2/set)	**TLAC-956**
5. 90 cm (3 ft.) Lead Adaptors for Transmitter (2/set)	**TLA1-956**
6. 7.5 m (25 ft.) Lead Adaptor for Transmitter	**TLA2-956**
Optional	
Cradle for Receiver*	**CR-958**

*Threaded for use on standard extension pole.

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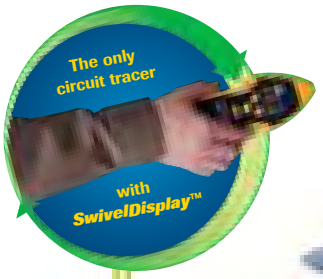
CAT III 600V

Kit Contents	61-954	61-956	61-958
Transmitter	TR-958	TR-958	TR-958
Receiver	RC-954	RC-958	RC-958
Tracer Test Lead Set	TL-956	TL-956	TL-956
Inductive Clamp			IC-958
Battery Pack			BP-958
Magnetic Hanging Strap			61-565
Hard Carrying Case	C-956	C-956	C-958
Batteries	•	•	•
Instruction Manual	•	•	•

CR-958

RC-958



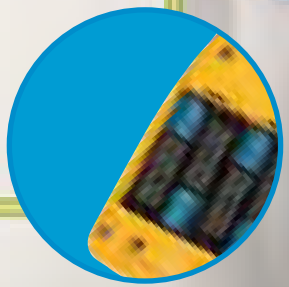
TL-956

TR-958

RC-954

Exclusive Rotating Display

Revolutionary technology in the receiver rotates the display in 90° increments so that you always receive an upright reading. Even when the receiver is pointing down, you can keep up.



Transmitter will work on a de-energised circuit and won't affect RCD's and sensitive equipment on an energised circuit.

Transmitter and receiver take four standard AA batteries.

Digital Circuit Breaker Finder & Socket Tester

- Locates breakers and fuses quickly and accurately
- Check polarity and easily identifies common wiring faults
- Verifies presence of power
- Visual and audible indicators
- 2-year warranty

61-534EU

61-184EU

Description	Cat. No.
Digital Circuit Breaker Finder & Socket Tester (includes carrying case)	61-534EU
Crocodile Clip & Probe Set	61-184EU
Carrying Case	C-290

Specifications

	61-534EU
Operating Voltage	200 - 250 VAC
Operating Frequency	47 - 63 Hz

CAT III 300V

EN61010-1

Voltage Performance Monitor

- Real-time TRMS voltage, frequency and harmonics monitoring
- Logs voltage, sags, swells and impulses
- Measures %THD and logs periods over 3% (line to neutral)
- Selectable thresholds based on the most accepted international standards, defaults to ITIC*
- Custom programmable event thresholds
- Invertible display, when it is necessary to plug in upside down
- 2-year warranty

** Captures events that would affect equipment on branch circuit*

Description	Cat. No.
Voltage Performance Monitor	61-830

Accessories

Includes	
Adapters (set of 4)	PA-830
Carrying Case	61-179

Specifications

61-830	
Operating Range	15-265V
Memory	513 Events
Sampling Method	Continuous (128 samples per cycle)
Voltage Accuracy	1%
Impulse Detection	6µs, 4kV
Harmonic Distortion	2%, FFT to 51st

N12966

CAT III 300V

Applications

Monitor voltage near sensitive equipment

- Installation and Service Technicians – Monitor voltage at point of equipment connection
- Electricians – Eliminate guesswork on service calls
- Building Maintenance Technicians – Identify voltage caused equipment failures
- Equipment Manufacturers – Eliminate unnecessary warranty costs
- Hospital/IT Maintenance Engineers – Monitor voltage quality to critical equipment

61-179

PA-830

See voltage through the eyes of your equipment

Poor voltage quality increases facility expenses, warranty costs and downtime plus shortens the life of equipment. The IDEAL VPM identifies only those voltage conditions that can damage equipment or cause equipment failure.

Accessories

- Various accessories such as adaptors, test leads, carrying cases etc.

Description	Cat. No.
Cradle for Circuit Tracer Receiver	CR-958
Set of 4 Adaptors for 61-830	PA-830
R1 +R2 Test Lead Adaptors	PR-958UK
Standard Test Leads	TL-80
Resistor Fused Test Leads	TL-82
GS38 Compliant Test Leads	TL-102EU
Test Leads w/large crocodile clip	TL-104
Test Leads with crocodile clip (61-497)	TL-497
Test Leads (for 61-795)	TL-795
Earth Ground Test Lead Kit	TL-796
Test Leads (for 61-797)	TL-797
Remote Proble (for Insulation Tester)	TL-797RP
Tracer Test Lead Set	TL-956
Test Lead Kit for Digital Circuit Breaker Finder	61-184EU
Magnetic Strip	61-565
USB Cable	61-902
ProVision™ II Software	61-906
Carrying case for 61-086	61-010
Carrying case for Voltage tester 61-096/61-090EU	C-90
Carrying case for 490 series	C-230
Carrying case for 61-534EU	C-290
Carrying case for 61-795	C-795
Carrying case for 61-796	C-796
Carrying case for 61-930	61-179

61-184EU

TL-102EU

CR-958

PR-958UK

Thermocouple

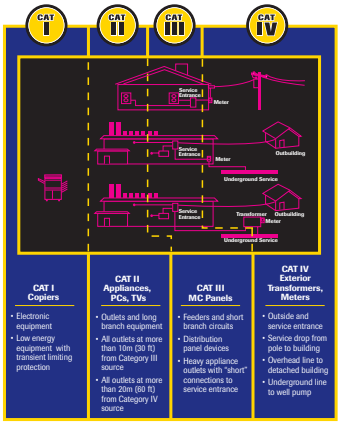
- Measures up to 1500˚ F (816˚ C)
- K-type thermocouple plugs into digital multimeter voltage jacks with 61-465 adaptor

Description	Cat. No.
Beaded K-type Thermocouple	61-461
Thermocouple Adaptor	61-465

61-461

61-465

Safety in the field


CAT I
CAT II
CAT III
CAT IV
Service Entrance
Meter
Outbuilding
Underground Service
Transformer
CAT I
Copiers
• Electronic equipment
• Low energy equipment with transient limiting protection
CAT II
Appliances, PCs, TVs
• Outlets and long branch equipment
• All outlets at more than 10m (30 ft) from Category III source
• All outlets at more than 20m (60 ft) from Category IV source
CAT III
MC Panels
• Feeders and short branch circuits
• Distribution panel devices
• Heavy appliance outlets with "short" connections to service entrance
CAT IV
Exterior
Transformers, Meters
• Outside and service entrance
• Service drop from pole to building
• Overhead line to detached building
• Underground line to well pump

The power demands of today's high-tech world have caused a marked increase in occurrences and levels of transient overvoltages. The International Electrotechnical Commission (IEC) has developed a safety standards model for measurement, control and laboratory use.

Category I – The signal level for telecommunications, electronic and other low-energy equipment with transient-limiting protection. Peak impulse transient range is 600–4,000 volts with a 30 ohm source.

Category II – The local level for fixed and non-fixed powered devices including appliances, lighting and portable equipment. Outlets located more than 30 feet from CAT III sources and 60 feet from CAT IV sources. Peak impulse transient range is from 600–6,000 volts with a 12 ohm source.

Category III – The distribution level for fixed primary feeders or branch circuits. Circuits that are separated from CAT IV sources by at least one level of transformer isolation. Peak impulse transient range is 600–8,000 volts with a 2 ohm source.

Category IV – The primary supply level for the highest levels of transient overvoltage. Includes the utility service both outside and at the service entrance, service drop from the pole to the building, overhead line to remote buildings, and underground line to a well pump. Peak impulse transient range is 600–12,000 volts with less than a 1 ohm source.

NETWORK TOOLS & TESTERS

E

LanTEK® II Series Cable Certifier

Superior performance, revolutionary fibre options and outstanding value makes LanTEK® II the ultimate cable certification platform.

Choose from three models that provide the test capabilities you need today with cost-effective upgrades should these change tomorrow.

With frequency ranges of 350MHz, 500MHz and 1GHz there is a model available for ISO Class D/CAT 5e through to ISO Class FA/CAT 7A certification.

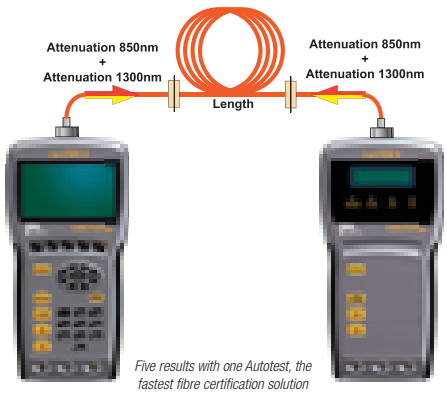
LanTEK® II also offers ultimate versatility with options for certification of TERA, GG45 and EC7 category 7/7A systems, plus M12 industrial Ethernet and coaxial test adapters.

- High speed testing - 11 seconds for Class D/CAT 5e
- Patented test method eliminates the need for expensive permanent link adaptors
- Test and certify with off-the-shelf patch cords
- DualMODE function allows certification to two different standards with one press of the Autotest button
- Internal memory stores 1,700 ISO Class E tests with full colour graphs
- Smart Lithium-Ion batteries offer up to 18 hours field use
- USB 2.0 port for fast data download
- Digital Talkset works over copper and fibre
- 11 cm widescreen display gives superb 160° viewing angle
- Maximum reporting power with IDEAL DataCENTER (IDC) software
- Optional Alien Crosstalk Kit for 10GBASE-T applications
- Accuracy independently verified by ETL

N12966

FIBERTEK® FDX

- The only solution that completely eliminates the need to swap fibres or modules, allowing complete one-step certification of horizontal and backbone cabling.
- More than 2x as fast as any other fibre certification tester
- Complies to TIA/ISO/IEC certification standards
- Real-time power meter to aid in troubleshooting active equipment



Five results with one Autotest, the fastest fibre certification solution available

N12966

Cat. No.	Description	Cat. No.	Description
33-993*	LanTEK® II-1000: TIA/EIA Cat7A, ISO Class F/F_A certifier w/Cat6A adaptors	**33-990-FA02****	FiberTEK® FDX Multimode (850/1300nm) kit with VCSEL/laser light sources for laser optimised fibre
33-992*	LanTEK® II-500: TIA/EIA Cat6A, ISO Class E_A certifier w/Cat6A adaptors	**33-990-FA03****	FiberTEK® FDX Single mode (1310/1550nm) kit with laser light sources for single mode fibre
33-991*	LanTEK® II-350: TIA/EIA Cat6, ISO Class E certifier w/Cat6 adaptors	**33-990-FA04****	FiberTEK® FDX Combination MM/SM kit with LED MM sources and laser SM sources (33-990-FA01 & 33-990-FA03)
33-990-FA01**	FiberTEK® FDX Multimode (850/1300nm) kit with LED light sources for standard multi-mode fibre	**33-990-FA05****	FiberTEK® FDX Combination MM/SM kit with VCSEL/laser MM sources and laser SM sources (33-990-FA02 & 33-990-FA03)

*Contents: LanTEK® II display and remote handset, two smart lithium ion batteries, two 110-240V power adaptors with US/EU/UK plugs, lockable semi-rigid carrying case, Cat6A F/FTP patch cords, USB cable, DataCENTER data management and reporting software, two headsets, hanging straps and ETL accuracy certificate.

**Contents: Two FiberTEK® FDX modules, lockable semi-rigid carrying case, SC, FC, ST adaptors for modules (2 ea.), SC-SC patch cords (MM kits: 3x 62.5µm, 3x 50µm; SM kits: 3x 9um SMF) compliant to ISO/IEC 14763-3 standard, quick reference guide, and electronic operation manual.

FiberMASTER™ Fibre Optic Testers

The IDEAL FiberMASTER™ allows the user to measure absolute power and calculate the insertion loss of fibre optic links at several wavelengths. Measure fibre optic power in microwatts (µW), milliwatts (mW) and decibel-milliwatts (dBm) to test and troubleshoot active Local Area Networks. Plus the 1490nm wavelength measurement mode is perfect for troubleshooting emerging Fibre to the Home cabling systems.

- **Fibre Optic Power Meter & Light Source** – Four wavelength power meter for multimode and single mode testing, and 850nm multimode LED light source.
- **Calibration Function** – Stores reference power level for quick dB loss measurements eliminating the need to manually calculate loss.
- **Save Time and Money** – Power meter features 2.5mm universal and FC adaptors, light source includes ST®, SC and FC adaptors to test the most common interfaces.
- **Ready for FTTx** – 1490nm measurement wavelength for use with nearly all single mode Fibre-To-The-Home applications.
- **Designed for the Field** – Unique "docking" light source and easy three-button operation make this the perfect fibre tester for use in the field.

FiberMASTER™ Kit Includes:

- 33-926 Light source, 850nm LED with ST®, SC and FC adaptors
- 33-927 Power meter, 4 wavelength with universal 2.5mm and fixed FC adaptor
- 2x SC-SC 50µm multimode cables
- 1 SC calibration coupler
- Carrying case
- User manual in English, Spanish, German, French, Portuguese, Italian and Chinese

Description	Cat. No.
Power meter with 850NM fibre light source (33-926 & 33-927)	**33-928**
Power meter with four wavelength MM/SM light source (33-927 & 33-929)	**33-931**
Fibre Power Meter with Calibration Function	**33-927**
Quad Light Source 850/1300/1310/1550	**33-929**

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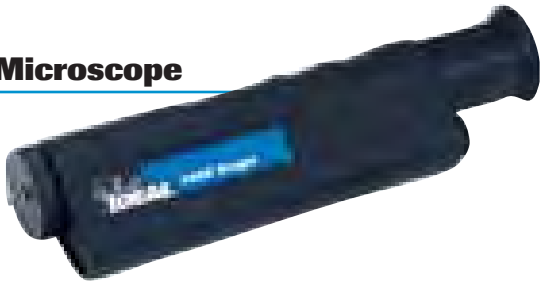
Fibre Inspection Microscope



- 100X magnification for viewing multimode connectors
- Includes 2.5mm connector "Universal Adaptor" for FC, ST® and SC style connectors
- Oblique illumination provides excellent view of ferrule cleanliness and core condition
- Rugged, rubberized metal housing, precision glass optics and a built-in laser safety filter
- White LED illumination delivers 100,000 hours bulb life
- Optional 200X Conversion Eyepiece threads on for viewing finish/polish of singlemode connectors

Description	Cat. No.
Fibre Inspection Microscope w/carrying case	**45-332**
1.25mm Connector Adaptor	**45-334**
MTRJ-Style Connector Adaptor	**45-335**
200X Conversion Eyepiece for Singlemode Connectors	**45-336**

Note: ST® is a registered trademark of AT&T.

CE

Visual Fault Finder

Laser light source used to locate breaks, faulty splices and crimps

- 2.5mm Universal Adaptor for all ST®, SC and FC connectors
- Useful over a distance of 5km (3 miles)
- Two AA batteries provide over 30 hours of continuous use
- Slim, pocket-sized tool in rugged solid aluminum body
- Nylon carrying case with belt loop included

Description	Cat. No.
Visual Fault Finder	**VFF5**

Note: ST® is a registered trademark of AT&T.

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LanXPLORER / LanXPLORER Plus / LanXPLORER PRO

LanXPLORER is an In-Line network tester with active and passive troubleshooting capabilities for Ethernet connectivity and cabling issues in multi-media environments including copper, fibre and WiFi.

In addition to VoiP testing, LanXPLORER provides detailed network statistics and device mapping including diagnosing low level Ethernet issues that cannot be detected by Windows® applications or managed switches. LanXPLORER also includes a loopback mode for transmission testers.

By being IPv6 and PoE+ compatible, LanXPLORER is a futureproof investment. LanXPLORER also generates a significant Return on Investment through enabling increased productivity and efficiency, plus using a single handheld device in place of separate laptop, wiremapper and Power over Ethernet (PoE) tester.

LanXPLORER is a versatile, handheld device essential for a multitude of technology specialists operating in any office, large enterprise and industrial Ethernet environment.
All of the following would experience significant payback from a LanXPLORER: IT and network teams, facilities maintenance, network cabling companies, systems integrators, plus IT consultants and troubleshooters

#R150001 – LanXPLORER PRO

Key Benefits

- **Save money** by using a single multifunction device in place of separate laptop, wiremapper and Power over Ethernet (PoE) tester
- **Increase efficiency** and improve user productivity through reduced network downtime by rapidly diagnosing Ethernet and cabling issues
- **Improve network management** with detailed network statistics and device mapping that can be stored and exported
- **Maximise return on your investment** with a device that is future-proofed for IPv6 and PoE+ compatibility
- **Save time** as intuitive interface enables short learning curve to effective use in the field, plus reduces job duration
- **User-exchangeable RJ45 connectors**
  Reduce maintenance costs and minimise downtime, as worn out RJ45 connectors can be easily replaced in the field without having to send the whole device off to a repair centre
- **Loopback mode**
  Save money by using LanXPLORER in conjunction with a transmission tester to test Ethernet throughput up to 1 Gb/s
- **Wiremapping by pin as well as pair**
  Save time on the job and locate wiremap faults more quickly and accurately by testing via both pin and pair, detecting split pairs and identifying the distance to fault
- **Reporting of test results**
  Simplify reporting and create accurate documentation on jobs undertaken by using LanXPLORER to generate and store test results in standards compliant XML format. Additionally, view and export results to enable report printing

Ordering Information - description	Cat. No.
LanXPLORER kit (1 x LanXPLORER test unit, 1 x Remote unit No. 1, 6 x AA Dry cell batteries (non-rechargeable), 2 x Patch cables - 30cm, Cat. 5e STP, 1 x Manual on CD, 1 x Quick reference guide, 1 x Carrying case)	**R150000**
LanXPLORER Premium kit (1 x LanXPLORER test unit, 1 x Remote unit No. 1, 2 x Patch cables - 30cm, Cat. 5e STP, 1 x Manual on CD, 1 x Quick reference guide, 1 x Carrying case, 1 x NiMH battery pack, 1 x Power supply with EU/UK adaptor, 1 x IDEAL amplifier probe 62-164, 1 x RJ45 insert extraction tool, 10 x Lifejack RJ45 inserts	**R150001**
LanXPLORER Plus kit (1 x LanXPLORER PLUS test unit, 1 x Remote unit No. 1, 1 x External USB high sensitivity WiFi antenna, 6 x AA Dry cell batteries (non-rechargeable), 2 x Patch cables - 30cm, Cat. 5e STP, 1 x Manual on CD, 1 x Quick reference guide, 1 x Carrying case)	**R15004**
LanXPLORER Plus Premium kit (1 x LanXPLORER PLUS test unit, 1 x Remote Unit No. 1, 1 x External USB high sensitivity WiFi antenna, 2 x Patch cables - 30cm, Cat. 5e STP, 1 x Manual on CD, 1 x Quick reference guide, 1 x Carrying case, 1 x NiMH battery pack, 1 x Power supply with EU/UK adaptor, 1 x IDEAL amplifier probe 62-164,1 x RJ45 insert extraction tool , 10 x Lifejack RJ45 inserts	**R150005**
LanXPLORER PRO kit (1 x LanXPLORER PRO test unit, 1 x Remote unit No. 1, 1 x External USB high sensitivity WiFi antenna, 6 x AA Dry cell batteries (non-rechargeable), 2 x Patch cables - 30cm, Cat. 5e STP, 1 x Manual on CD, 1 x Quick reference guide, 1 x Carrying case	**R15002**
LanXPLORER PRO Premium kit (1 x LanXPLORER PRO test unit, 1 x Remote unit No. 1, 1 x External USB high sensitivity WiFi antenna, 2 x Patch cables - 30cm, Cat. 5e STP, 1 x Manual on CD, 1 x Quick reference guide, 1 x Carrying case, 1 x NiMH battery pack, 1 x Power supply with EU/UK adaptor, 1 x IDEAL amplifier probe 62-164, 1 x RJ45 insert extraction tool , 10 x Lifejack RJ45 inserts	**R15003**

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Description	Cat. No.
1 x Active remote no. 1	**150054**
1 x Active remote set no. 2 – 12	**150050**
1 x NiMH battery pack	**150053**
1 x External USB high sensitivity WiFi antenna	**150061**
2 x Patch cables - 30cm, Cat. 5e STP	**150055**
1 x Power supply with EU/UK adaptor	**150052**
1 x 1000BASE-SX Fibre kit. Includes 850nm SFP (Small Form factor Pluggable) SX transceiver, LC/LC and LC/SC duplex multimode cables and SC/SC duplex adaptor	**MGKSX1**
1 x 1000BASE-LX Fibre kit. Includes 1310nm SFP (Small Form factor Pluggable) LX transceiver, LC/LC and LC/SC duplex singlemode cables and SC/SC duplex adaptor	**MGKLX2**
1 x 1000BASE-ZX Fibre kit. Includes 1550nm SFP (Small Form factor Pluggable) ZX transceiver, LC/LC and LC/SC duplex singlemode cables and SC/SC duplex adaptor	**MGKZX3**
1 x Optical fibre multimode 2m duplex cable with LC-LC connectors	**150056**
1 x Optical fibre singlemode 2m duplex cable with LC-LC connectors	**150057**
1 x Active remote set no. 2 to No. 6	**150059**
1 x Carry case	**150051**
1 x RJ45 insert extraction tool, 10 x Lifejack RJ45 inserts	**150058**

SignalTEK II / SignalTEK II FO

SignalTEK II is a handheld cable and network qualifier designed to confirm correct installation of copper and fibre cabling capable of supporting voice, video, data and CCTV applications over 10/100 Megabit and Gigabit Ethernet.

SignalTEK II also runs transmission tests on Ethernet LAN through hubs and switches up to full Gigabit bi-directional load testing.

Incorporating numerous troubleshooting features such as wiremap by pin and pair with distance to fault, cable tracing and verifying Ethernet connectivity, SignalTEK II is a highly cost effective device; IPv6 and PoE+ compatibility ensures it is also a future-proof investment.

SignalTEK II saves money, improves efficiency and increases productivity through many features including time saving user-exchangeable RJ45 inserts, and an intuitive graphical user interface that eradicates expensive and time consuming training sessions.

Additionally, SignalTEK II provides a cost effective alternative to a cable certifier for those applications not needing certification to EIA/TIA or ISO/IEC standards.

SignalTEK II is essential for all installers of data cabling whether working in residential premises, small to medium-sized offices, or industrial Ethernet environments.

CE #R156001 – SIGNALTEK™-FO

Key Benefits:

- **Save money** by using a single multifunction device in place of separate copper, fibre and Power over Ethernet (PoE) testers
- **Increase efficiency** through simplifying and accelerating cable installation including advanced Ethernet network troubleshooting
- **Cost effective** way to test network links to Gigabit performance standards including IEEE 802.3ab
- **Future-proof** investment with a cable qualifier that is already IPv6 and PoE+ compatible
- **Full Gigabit bi-directional load testing**
  Save time and improve the reliability of your test results with full bi-directional testing
- **Additional Ethernet troubleshooting capabilities**
  Maximise Return on Investment with the added ability to identify Ethernet, Power over Ethernet (PoE) and PoE+ issues, in addition to verifying Ethernet connectivity
- **Wiremapping by pin as well as pair**
  Save time on the job and locate wiremap faults more quickly and accurately by testing via both pin and pair, detecting split pairs and identifying the distance to fault
- **Reporting of test results**
  Simplify customer reporting and create accurate documentation on jobs undertaken using SignalTEK II to generate and store test results in standards compliant XML format. Additionally, view and export results to enable report printing
- **Load test through hubs and switches**
  Save money by measuring available network speed without needing to purchase a separate transmission tester

Description	Cat. No.
SignalTEK II kit (1 x Near-End unit (copper only), 1 x Remote unit (copper only), 2 x Power module (rechargeable), 2 x Mains PSU/charger, 2 x 30cm RJ45 cable, 1 x Quick reference guide (English), 1 x User manual CD, 1 x Carrying case	**R156000**
SignalTEK II FO kit (1 x Near-End unit (copper and fibre), 1 x Remote unit (copper and fibre), 2 x Power module (rechargeable), 2 x Mains PSU/charger, 2 x 30cm RJ45 cable, 1 x Quick reference guide (English), 1 x User manual CD, 1 x Carrying case	**R156001**
1 x Active remote no. 1	**150054**
1 x Active remote set no. 2 – 12	**150050**
1 x NiMH power module	**151053**
2 x Patch cables - 30cm, Cat. 5e STP	**150055**
1 x Power supply with EU/UK/US adaptor	**151051**
1 x Alkaline battery module	**151052**
1 x 1000BASE-SX Fibre kit. Includes 850nm SFP (Small Form factor Pluggable) SX transceiver, LC/LC and LC/SC duplex multimode cables and SC/SC duplex adaptor	**MGKSX1**
1 x 1000BASE-LX Fibre kit. Includes 1310nm SFP (Small Form factor Pluggable) LX transceiver, LC/LC and LC/SC duplex singlemode cables and SC/SC duplex adaptor	**MGKLX2**
1 x 1000BASE-ZX Fibre kit. Includes 1550nm SFP (Small Form factor Pluggable) ZX transceiver, LC/LC and LC/SC duplex singlemode cables and SC/SC duplex adaptor	**MGKZX3**
1 x Optical fibre multimode 2m duplex cable with LC-LC connectors	**150056**
1 x Optical fibre singlemode 2m duplex cable with LC-LC connectors	**150057**
1 x Active remote set no. 2 to No. 6	**150059**
1 x Carry case	**156050**
1 x RJ45 insert extraction tool, 10 x Lifejack RJ45 inserts	**150058**

NaviTEK II / NaviTEK II Plus / NaviTEK II PRO

NaviTEK II is an advanced wiremapper and versatile troubleshooter designed for conducting active and passive network testing across copper and fibre networks, and provides real benefits to all users.

As a powerful network and cable verification tool, NaviTEK II saves money and increases efficiency by simplifying and accelerating cable installation and network troubleshooting on a single multifunction device.

Lowest possible cost of ownership comes from user-exchangeable RJ45 inserts to replace this consumable wear part in the field, and an intuitive graphical user interface removing the need for time consuming and costly training sessions.

With beneficial features including wiremap by pin as well as pair, IPV6, PoE, VLAN and 802.1x, NaviTEK II is a future-proof investment that generates a real Return on Investment

NaviTEK II is a powerful cable verification tool for cabling installers and IT or facilities maintenance professionals working in any enterprise, residential, campus or industrial Ethernet environment

Key Benefits:

- **Save money** through using a single multifunction device for testing copper and fibre networks
- **Increase efficiency** by simplifying and accelerating cable installation and network troubleshooting
- **Reduce downtime in the field** with replaceable RJ45 connectors negating the need to return unit to service centre
- **Wiremapping by pin as well as pair**
  Save time on the job and locate wiremap faults more quickly and accurately by testing via both pin and pair, detecting split pairs and identifying the distance to fault
- **Additional Ethernet troubleshooting capabilities**
  Maximise Return on Investment with the added ability to identify Ethernet, Power over Ethernet (PoE) and PoE issues, in addition to verifying Ethernet connectivity
- **Support for IPv6 and PoE**
  NaviTEK II supports both IPv4 and IPv6 internet addresses, as well as PoE, making it a future-proof investment.
- **Reporting of test results**
  Simplify customer reporting and create accurate documentation on jobs undertaken using SignalTEK II to generate and store test results in standards compliant XML format. Additionally, view and export results to enable report printing
- **802.1x compatibility**
  Log onto networks secured by this protocol, avoiding unnecessary security complications and lengthy project delays

CE

Ordering Information - description	Cat. No.
NaviTEK II kit 1 x NaviTEK II test unit, 1 x Remote unit No. 1, 4 x AA dry cell batteries (non-rechargeable), 2 x Patch cables - 30cm, Cat. 5e STP, 1 x Manual on CD,1 x Quick reference guide, 1 x Carrying case	**R153000**
NaviTEK II Plus kit (1 x NaviTEK II PLUS test unit, 1 x Remote unit No. 1, 4 x AA dry cell batteries (non-rechargeable), 2 x Patch cables - 30cm, Cat. 5e STP, 1 x Manual on CD, 1 x Quick reference guide, 1 x Carrying case	**R151000**
NaviTEK II Plus Premium kit 1 x NaviTEK II PLUS test unit, 1 x Remote unit No. 1, 4 x AA dry cell batteries (non-rechargeable), 2 x Patch cables - 30cm, Cat. 5e STP, 1 x Manual on CD, 1 x Quick reference guide, 1 x Carrying case, 1 x Rechargeable power module, 1 x PSU with UK/EU/US adaptors, 1 x RJ45 insert extraction tool, 10 x Lifejack RJ45 inserts, 1 x Tone trace probe	**R151001**
NaviTEK II PRO Premium kit 1 x NaviTEK II PRO test unit, 1 x Remote unit No. 1, 4 x AA dry cell batteries (non-rechargeable), 2 x Patch cables - 30cm, Cat. 5e STP, 1 x Manual on CD, 1 x Quick reference guide, 1 x Carrying case, 1 x Rechargeable power module, 1 x PSU with UK/EU/US adaptors, 1 x RJ45 insert extraction tool, 10 x Lifejack RJ45 inserts, 1 x Tone trace probe	**R151002**

#R151002 – NaviTEK II PRO

Accessories - description	Cat. No.
1 x Active remote no. 1	**150054**
1 x Active remote set no. 2 – 12	**150050**
1 x NiMH power module	**151053**
2 x Patch cables - 30cm, Cat. 5e STP	**150055**
1 x Power supply with EU/UK/US adaptor	**151051**
1 x Alkaline battery module	**151052**
1 x 1000BASE-SX Fibre kit. Includes 850nm SFP (Small Form factor Pluggable) SX transceiver, LC/LC and LC/SC duplex multimode cables and SC/SC duplex adaptor	**MGKSX1**
1 x 1000BASE-LX Fibre kit. Includes 1310nm SFP (Small Form factor Pluggable) LX transceiver, LC/LC and LC/SC duplex singlemode cables and SC/SC duplex adaptor	**MGKLX2**
1 x 1000BASE-ZX Fibre kit. Includes 1550nm SFP (Small Form factor Pluggable) ZX transceiver, LC/LC and LC/SC duplex singlemode cables and SC/SC duplex adaptor	**MGKZX3**
1 x Optical fibre multimode 2m duplex cable with LC-LC connectors	**150056**
1 x Optical fibre singlemode 2m duplex cable with LC-LC connectors	**150057**
1 x Active remote set no. 2 to No. 6	**150059**
1 x Carry case	**151054**
1 x RJ45 insert extraction tool, 10 x Lifejack RJ45 inserts	**150058**

SecuriTEST™ PRO

CCTV installers often need to carry a variety of testing tools to complete their work.

SecuriTEST™ PRO combines the most-needed tools in one easy-to-carry package. Since all connections (video/communications/DMM) attach to a single unit, **SecuriTEST™ PRO** eliminates the need to juggle several devices while on a ladder or lift, making working conditions safer and increasing productivity.

SecuriTEST™ PRO includes IRE testing (video and sync levels), audio level testing, a high-capacity lithiumion battery in a package that's small and light.

The **SecuriTEST™ PRO** has all the features and functionality that CCTV technicians need to install, test and maintain analogue security camera systems. **SecuriTEST™ PRO** also includes a custom carrying case.

Features of SecuriTEST™ PRO

- IRE video level and sync tests
- Sound level test through integrated speaker and on screen level indicator
- High capacity lithium ion battery
- Carrying case included
- **Seven Essential CCTV Tools** - Combines a CCTV video tester, PTZ camera controller, Digital Multimeter, UTP cable tester, video test pattern generator, PTZ protocol analyser and camera programmer in a single compact package.
- **Save Time & Money** - Test, aim, focus and program cameras when working alone. Save time by not having to walk back to the control centre to verify functionality of each camera.
- **Compact Design** - Combines all the most needed security tools in a lightweight easy-to-carry unit. Sharp, bright 2.5 in. (6.3 cm) colour LCD screen with on-screen displays for PTZ control/diagnostics and DMM readouts.
- **PTZ Protocol Analyser** - Compatible with 20+ PTZ protocols to test and program cameras in the field. Decodes and identifies output from PTZ console to aid in troubleshooting.

Description	Cat. No.
SecuriTEST™ PRO CCTV/Security Tester only	**33-892**
SecuriTEST™ Tester Pouch only	**62-891**

VDV PRO Cable Tester

The VDV PRO Cable Tester is an easy-to-use cable testing and verification device that can quickly test all wiring requirements found throughout today's residential and commercial environments.

- Voice – tests 3-pair USOC and 6-position RJ-11/12 jacks for voice cable testing
- Data – tests wire map of shielded and unshielded cable to T568A/B standard
- Video – tests coax cable for opens, shorts and length with F-Connector interface
- Larger backlit LCD screen for better test results readability
- Network link LED blink for visual cable tracing
- Voice testing capability detects RJ-11 (1, 2, or 3 pair)
- Voice test also shows Normal or Reverse for pins 1 through 6
- Length measurement is shown during initial test results for convenience and time savings
- Eight remotes have RJ-45, RJ-11 and Coax F-jacks for increased testing capabilities
- Tests for shield continuity, shorts, opens, miswires, reversals and split pairs with remote connected
- Full dot-matrix LCD display for user convenience to read display results
- One-ended testing for shorts, opens and split pairs (no remote needed)
- Test results displayed in wire map format with message line for shorts and split pairs

Description	Cat. No.
VDV PRO w/one remote and terminator	**33-770**
VDV PRO w/eight remotes and terminators	**33-771**
VDV PRO (33-770) w/one remote and Amplifier Probe (62-164)	**33-780**
VDV PRO Eight Remote Replacement Kit (ID 1-8)	**33-774**
Eight Coax Terminator Kit	**33-775**

CE

IENet® PRO Cable Tester for RJ-45 and M-12 Industrial Ethernet Cable Testing

The IENet® PRO tester makes it a snap to quickly verify wiring integrity and assure proper terminations for diverse types of industrial cabling and provides automatic pin conversion between M-12 and RJ-45 connections.

- Simple selection between Voice, 2 and 4 pair Data, and Coax testing functions. Voice and Video/Security tests via optional adaptors
- Tests for opens, shorts, miswires, reversals, split pair (user selectable) and length
- Indicates correct wiremap to T568A/B standards for shielded and unshielded cabling
- Easy-to-read LCD display with "PASS" or "Miswire" indicator for each test
- Identifies presence of voltages on cables
- Tone generator supports four different tones making fault isolation easier
- Network LED blink for visual cable tracing
- Numerical indication for UTP "No Shield" and STP - "Shield" to comply with industrial ethernet PROFINET® requirements
  PROFINET® is a registered trademark of PROFIBUS International.

Ordering Information

Description	Cat. No.
IENet™ PRO w/single remote	**33-772**
IENet™ PRO w/eight remotes	**33-773**
Eight Coax Terminator Kit	**33-775**
IENet™ PRO Eight Remote Kit (ID 1-8)	**33-776**

CE

Test-Tone-Trace Kit

- Kit includes the VDV (33-856) and Amplifier Probe (62-164)
- Tests and traces coax, twisted pair and telephone cables

CE

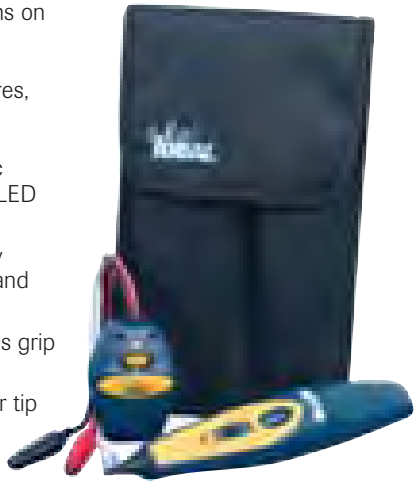
Description	Cat. No.
Test-Tone-Trace Kit	**33-866**

540DK Tone Generator & Amplifier Probe

Tests wiring configurations on UTP/STP cables.

Checks for shorts, miswires, reversals and split pairs.

Debug feature, automatic shut-off and low battery LED indication.



- Tracing and continuity checking of telecom and datacom cables
- Ergonomic design aids grip and durability
- Probe's unique rubber tip won't break or crack
- LED lamp provides visual indication of correct wire
- External terminals for butt-set connection
- Volume adjustment knob
- Batteries included

CE

Description	Cat. No.
Tone Generator & Amplifier Probe	**540DK**

VDV MultiMedia Cable Tester

Easy-to-use tester for installers working with voice, data and video applications.

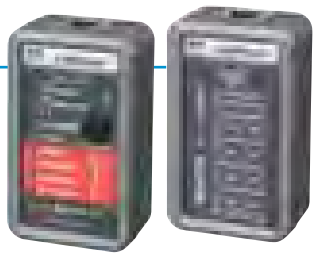
One tester for all applications!

- **Voice** – supports 3-pair USOC and 6-position RJ-11/12 jacks for telephone cable testing
- **Data** – supports both shielded and unshielded cable testing to T568A/B (RJ-45)
- **Video** – tests coax cable for opens and shorts with F-connector interface
- Tests for opens, shorts, miswires, reversals and split pairs. Also indicates correct wiremap. Has automatic shut off (to prolong battery life) and low battery indicator.
- Easy-to-read LCD display with "PASS or ERROR" indicator after each test
- Tone generator supports four different tones making fault isolation easier
- One remote wiremap and testing unit is stored inside tester – easier to keep all parts together
- Uniquely designed remote accommodates RJ-11, RJ-45 and F-style connectors

CE

Description	Cat. No.
VDV MultiMedia Cable Tester	**33-856**

LinkMaster™ Tester



Tests wiring configurations on UTP/STP cables. Checks for shorts, miswires, reversals and split pairs. Debug feature, automatic shut-off and low battery LED indication.

- Designed to test installed twisted pair wiring
- Tests unshielded and shielded modular plugs
- Main unit and remote allow one person testing

CE

Description	Cat. No.
LinkMaster™ Tester and Remote	**62-200**

OmniSeal™ Pro Compression Tools

OmniSeal™ Pro
30-603

The IDEAL **OmniSeal**™ Compression Tools now offer additional features and increased connector compatibility in a smaller, more compact tool designed to meet the demands of the professional installer.

(**OmniSeal**™ requires no accessory attachment to terminate IDEAL branded compression connectors.)

Most other manufacturers compression connectors can be terminated with an easy plunger depth adjustment.

The simple intuitive design combined with its size and universal connector acceptance makes this the only compression tool needed by professional installers.

- Factory preset to work with IDEAL compression connectors
- Compresses F-type, RCA, BNC and Mini connectors
- Adjustable to fit other manufacturer's connectors – no accessory adaptors required

Description	Cat. No.
OmniSeal™ Pro Compression Tool	**30-603**

Convenient handle lock for easy fit in pouch
Spring loaded handle
Textured Santoprene™ slip resistant comfort grip
High strength aluminum body for durability, lighter weight
Compresses F-type, Mini F-type, RCA, and Mini RCA connectors
Universal tip for all connectors
Spin knob for fast depth adjustment
Lock nut holds adjustments in place

F-Compression Tool

- Easily compresses series 6 and 59 coax compression F-connectors
- Permanent connection – never comes loose
- Works with most brands of compression connectors

Description	Cat. No.
Economy Compression Tool	**30-633**

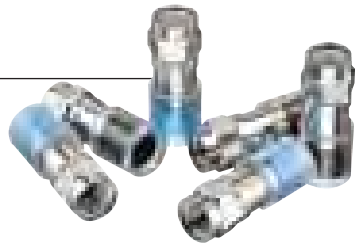
Compression Connectors

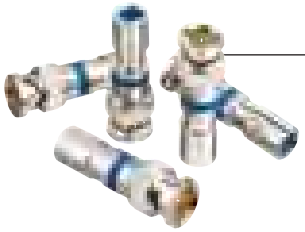
RTQ™ Reg/Tri/Quad & Plenum F-Connectors

- Fits 60% regular, tri-shield and quad shield cables
- Nickel-plated, brass-construction for superior corrosion resistance
- Designed for use by satellite and cable TV companies
- Weatherproof for indoor and outdoor use
- Use 30-603, 30-793 or 30-633 Compression Tools

OmniCONN™ F-Connectors

- Non corrosive nickel plated brass body and polycarbonate bushing
- Delrin/Nylon adaptor sleeve and o-ring provide double protection for a watertight seal
- Free spinning hex nut for ease of installation onto all 7/16 ports
- 75 ohm nominal impedance
- Two-piece pre-assembled connectors



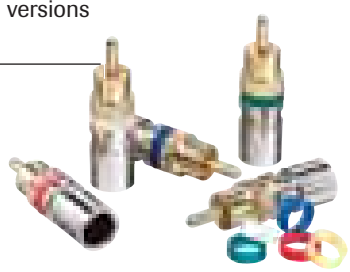


BNC Connectors

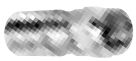
- Nickel-plated, brass-construction for superior corrosion resistance
- Moisture-inhibiting design
- Use 30-793 Compression Tool
- 75 Ohm nominal impedance
- Gold-plated pin contact area
- Available in plenum versions

RCA Connectors

- Constructed of nickel plated brass and gold plated head
- 75 ohm nominal impedance
- Bandwidth up to 3 GHZ
- Compatible with 30-603 and 30-793 Compression Tools



Compression Connector Chart

	Connector Type	Cable Type	Qty.	Cat. No.
	F	RG-6 Reg/Tri/Quad	Card of 10	**92-651**
			Jar of 50	**92-650**
	F	RG-59 Reg/Tri/Quad	Jar of 50	**92-610**
	F	RG-6	Jar of 50	**89-044**
	F	Quad	Jar of 50	**89-045**
	BNC	RG-6	Card of 15	**89-048**
			Jar of 35	**89-5048**
	BNC	RG-59	Card of 15	**89-047**
			Jar of 35	**89-5047**
	RCA*	RG-6	Card of 10	**89-582**
	RCA*	RG-59	Card of 10	**89-572**

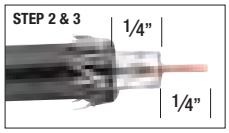
***RCA Connectors include an assortment of colour ID bands.**

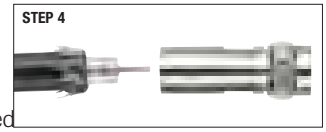
Compression Connector Instructions

Compression F-Connector

1. Use IDEAL Data T®-Cutter (45-074) to cut cable to desired length.
2. Use IDEAL Coax Stripper (45-603 or 45-526) to strip coax to correct dimensions.
   - Correct strip length settings will leave 6.4 mm (1/4") of centre conductor exposed and 6.4 mm (1/4") of braiding (shield) exposed.
   - After stripping, make sure tip of centre conductor is straight and not bent. Straighten conductor if necessary.
3. Fold back outer layer of braiding (shield) against cable jacket. Keep braid strands as straight and as close to jacket as possible.

   - Note: For Quad Shield cables (with 4 layers: outer braid, outer foil, inner braid, inner foil), first fold back outer braiding. Use 45-074 to score and remove exposed 6.4 mm (1/4") of outer foil. Remove outer foil, and fold back inner braiding.

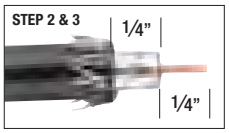


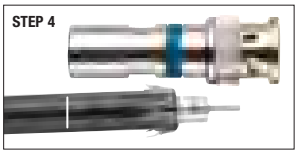


4. Push F connector on to prepared cable until white centre dielectric is flush with bottom of the nut of the F connector.
5. Insert connector/cable assembly into the OmniSeal™ Pro XL compression tool, squeeze handle completely to compress fitting. Remove completed cable assembly.

Compression BNC/RCA Connectors

1. Use IDEAL Data T®-Cutter (45-074 to cut cable to desired length.
2. Use an IDEAL coax stripper (45-603 or 45-526) to strip coax to proper dimensions.
   - Correct strip length settings will leave 6.4 mm (1/4") (minimum) of centre conductor exposed and 6.4 mm (1/4") of braiding (shield) exposed.
   - After stripping, make sure tip of centre conductor is straight and not bent. Straighten conductor if necessary. Conductor must be straight to make proper contact with pin contact inside of connector.
3. Fold back outer layer of braiding (shield) against cable jacket. Keep braid strands as straight and as close to jacket as possible.
   - Note: For Quad Shield cables (with 4 layers: outer braid, outer foil, inner braid, inner foil), first fold back outer braiding. Use 45-074 to score and remove exposed 6.4 mm (1/4") of outer foil. Remove outer foil, and fold back inner braiding.
4. Measure and mark cable insertion length.





For BNC's, align tip of centre conductor with top of the nut fitting.

For RCA's, align tip of centre conductor with top of retention collar. Mark or lightly score cable jacket near base of connector.

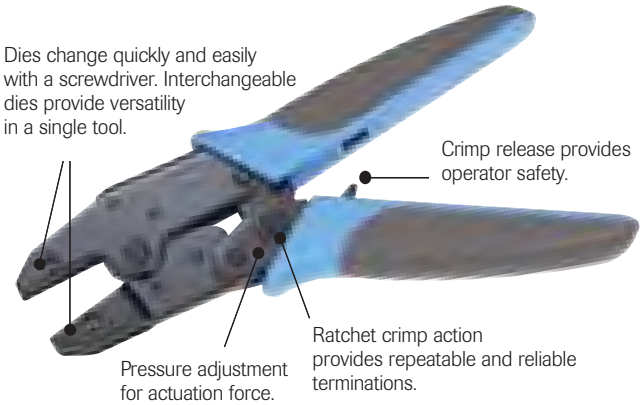
Connector should be within 3.2 mm (1/8") of this mark after it is pushed on to cable. If it is more than 3.2 mm (1/8") away from the mark, continue rocking and guiding connector on to cable.

Approximately 32 mm (1-1/4") of cable length should be inserted into the connector prior to compressing connector for BNC. Approximately 28.5 mm (1-1/8") of cable length should be inserted into connector prior to compressing connector for the RCA.

5. Insert connector/cable assembly into OmniSeal™ Pro XL compression tool, squeeze handle completely to compress fitting. Remove completed cable assembly.

Crimpmaster™ Crimp Tools & Die Sets

High quality ratchet-type crimp tool for electricians, contractors and installers who require guaranteed repeatability of good mechanical and electrical connections.

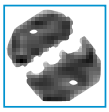

Dies change quickly and easily with a screwdriver. Interchangeable dies provide versatility in a single tool.
Crimp release provides operator safety.
Pressure adjustment for actuation force.
Ratchet crimp action provides repeatable and reliable terminations.

30-556
RJ-11 Crimp Tool for two, four or six-position modular plugs

30-582
F-type CATV RG-59, RG-6 Connectors (Hex, 0.350 (8.89mm), 0.320 (8.13mm), 0.255 6.48mm)

30-559
RJ-45 Eight-position Crimp Tool for keyed or non-keyed modular plugs

30-579
22-10 AWG (.324mm² - 5.261mm²) insulated terminals/colour coded nests
Tool w/die 30-500

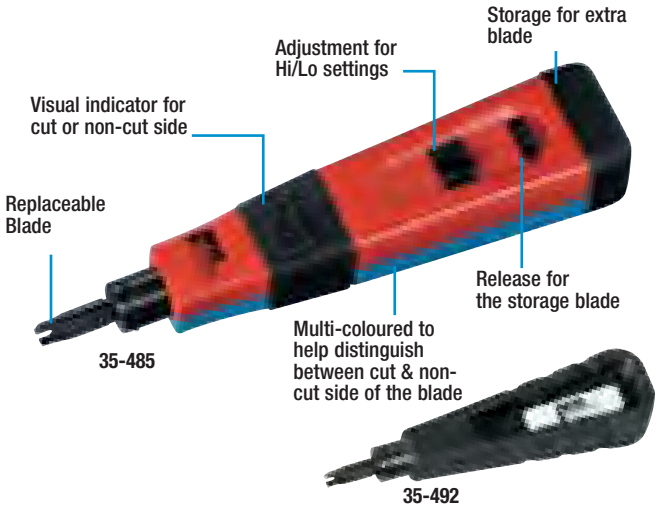


30-581
RG-58, RG-59/62, BNC/TNC Coax Connectors (Hex, 0.255 (6.48mm), 0.213 (5.41mm), 0.068 (1.73mm)

30-580
22-8 AWG (.3mm²-8mm²) non-insulated Terminals

Description	Cat. No.
Crimpmaster™ Crimp Frame Tool	30-506

Punch Down Tools


Storage for extra blade
Adjustment for Hi/Lo settings
Visual indicator for cut or non-cut side
Replaceable Blade
Release for the storage blade
Multi-coloured to help distinguish between cut & non-cut side of the blade
35-485
35-492

Impact Turn-Lock™ Punch Down Tools	Cat. No.
Punchmaster™ II Punch Down Tool w/110 blade	35-485
Non-Impact Turn-Lock™ Punch Down Tools	**Cat. No.**
Punch Down Tool w/110 blade	35-492
Economy Punch Down Tool	**Cat. No.**
Non-impact Tool w/permanent non-cut blade	35-185

35-495 110 Blade | 35-497 66 Blade | 35-407 110/66 Blade | 35-478 Krone® Blade | 35-479 Bix® Blade

Removable Blades*	Cat. No.
110 Turn-Lock™ blade	35-495
66 Turn-Lock™ blade	35-497
110/66 combo blade w/cutting edges	35-407
Krone® blade	35-478
Bix® blade	35-479

*Not applicable for Economy Punch Down tool.
Bix® is a registered trademark of Nortel. Krone® is a registered trademark of Krone, Inc.

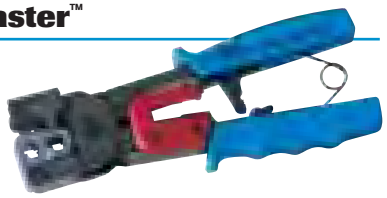
Telemaster™ Telephone Tools

- For paired conductors
- Multi-function telephone tool cuts, strips and crimps for easy one-tool application
- Steel frame for long-term durability. (Crimps primary modular plug strain relief only)

Description	Kit Cat. No.	Tool Only Cat. No.
Tool for RJ-11 (1, 2, 3 pair) and RJ-45 (4 pair) Plugs	33-700*	30-496-001
Tool for RJ-22 (handset) and RJ-11 (1, 2, 3 pair)	N/A	30-499
Replacement Cut and Strip Blade Set for Telemaster™	N/A	LB-1747

*Kit includes 10 each, RJ-45 8P8C, RJ-11 6P6C and RJ-11 6P4C modular plugs.

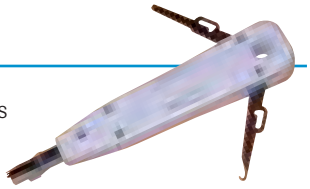
Ratchet Telemaster™



- For paired conductors
- Ratchet version of popular Telemaster™ Tool for RJ-45 and RJ-11 modular plugs
- Repeatable crimp action for consistent, high quality connections

Description	Cat. No.
Ratchet Telemaster™	30-696
Replacement Cut & Strip Blade Set for 30-696	LA-4102

Punch Down Tool



- Insertion Tool for Krone Blocks
- For seating telecom and data cables into terminals

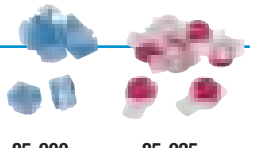
Description	Cat. No.
Punch Down Tool	35-482

Kinetic Super™ Wire Stripper/Crimper

- Cuts and strips 22 to 24 AWG
- Crimps IDC Connectors

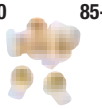
Description	Cat. No.
Kinetic Super™ Wire Stripper/Crimper Kit – includes 25 IDC's (UR-I, 3-Wire Butt Splice)	33-719

Insulation Displacement Connectors (IDC)



IDC connectors create fast splice and tap connections on solid copper wires. Designed for low voltage telecommunication cables.

85-900 85-925

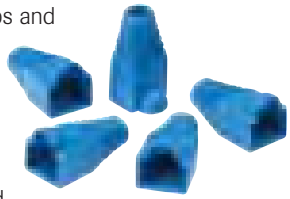


85-950

- Moisture-resistant sealant protects wires from corrosion
- Use with solid copper single-conductor wire
- Kinetic Super™ Wire Stripper/Crimper easily cuts and strips 22 to 24 AWG solid wire

Description	Qty.	Cat. No.
UR-I, 3-Wire Butt Splice IDC	25	85-925
UR-I, 2-Wire Butt Splice IDC	100	86-925
UR-I, 3-Wire Butt Splice IDC	1,000	87-925
IDC Combo Pack	25	85-960
UY-I, 2-Wire Butt Splice IDC	25	85-950
UB-I, 2-Wire Tap Splice IDC	25	85-900

Strain Relief Boots for Modular Plugs

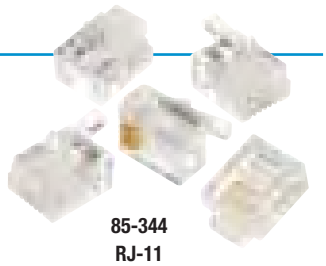


- Prevents broken connector tabs and snagging while extending connector life
- Minimises cable bends that can reduce data speed and result in data loss
- Dampens cable movement and vibrations that can result in premature connector failure

Description	Qty.	Cat. No.
Strain Relief Boots for Modular Plugs	25	85-380

Modular Plugs

85-346
RJ-45



85-344
RJ-11

- Plugs are capable of supporting the latest EIA/TIA cable system performance categories when installed in compliance with appropriate EIA/TIA standards and methods
- All plugs work with 24 AWG solid or stranded conductors and round or flat cables.

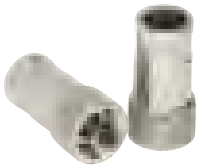
Description	Qty.	Cat. No.
8-Position 8-Contact, RJ-45	25	85-346
6-Position 6-Contact, RJ-11	25	85-345
6-Position 4-Contact, RJ-11	25	85-344

CAT 6 RJ-45 Modular Plugs

- Unique three-piece design provides easy installation and optimal performance
- Crimps with a standard RJ-45 crimp die
- 50 micron gold contacts, 8-position, 8-contact
- Suitable for solid or stranded conductors – 22 – 23 AWG

Description	Qty.	Cat. No.
CAT 6 RJ-45 Modular Plugs	25	85-366

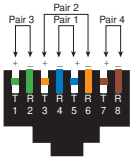
Push-On F-Connectors, RG-6 & RG-59



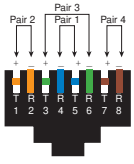
- No terminator tool required
- All brass nickel-plated construction
- Knurled nut for superior grip
- Designed for indoor use

Connector Type	Cable Type	Qty.	Cat. No.
F	RG-6	Card of 4	85-065
F	RG-59	Card of 4	85-067

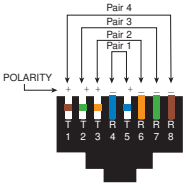
Wiring Configurations for Modular Plugs



T568-A



T568B (AT&T)



USOC

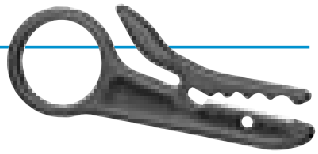
UTP/STP/Coaxial Cable Strippers

- Adjustable blades can be set for any depth to help ensure nick-free stripping and slitting of cables

Description	Typical RG Cables	Cat. No.
Coaxial Cable Stripper, up to 1/8 in. (3.2mm) O.D	RG-174, RG-187	**45-162-341** (Gray)
Coaxial Cable Stripper, 1/8 in. (3.2mm) to 7/32 in. (5.556mm) O.D.	Mini Coax RG-58,CB	**45-163-341** (Blue)
Coaxial Cable Stripper, 1/4 in. (6.4mm) to 9/16 in. (14.3mm) O.D.	RG-11, RG-8	**45-164-341** (Blue)
Cable Stripper, 3/16 in. (4.8mm) to 5/16 in. (8mm) O.D.	RG-59/6, UTP Cable	**45-165-341** (Black)
Replacement Blade Set* for 45-162, 45-163, 45-165	—	**L-9225**
Replacement Blade Set* for 45-164	—	**L-9226**

*A set of blades consists of three straight blades and one round blade.

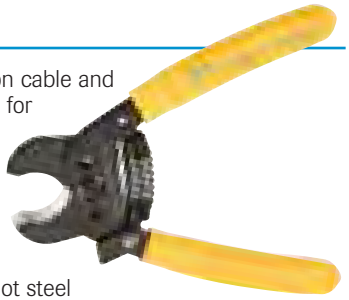
UTP Cable Stripper



- Strips Cat 3, 5, 5e & 6 cables
- One-step stripping

Description	Cat. No.
UTP Cable Stripper	**45-167**

Data T®-Cutter



- Cuts round communication cable and maintains cable geometry for better cable performance
- Cuts multi-pair cable up to .500 in. (12.7mm) and coaxial cable up to RG-9/U
- Suitable for soft cables (not steel re-inforced)
- Steel reinforced centre conductors can be trimmed with bolt cutting holes
- Locking latch keeps tool closed in pouch

Description	Cat. No.
Data T®-Cutter	**45-074**

Cable/Satellite/CCTV Coax Stripper

- Designed for fast and easy 6.4 mm (1/4") x 6.4 mm (1/4") strip lengths
- Blades auto-adjust to different diameter coax cables
- Spinner ring for fast stripping
- Strips RG-6/6 Quad and RG-59 coax cable

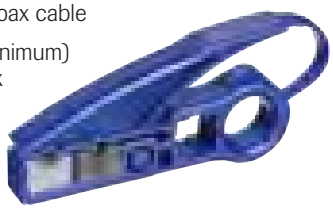
Description	Cat. No.
Video Coax Stripper	**45-321**

Coax Cable Stripper

- For RG-6, RG-6 Quad and RG-59
- No adjustment required
- Strips centre conductor and cable jacket

Description	Cat. No.
Coax Cable Stripper	**45-320**

Multi-Strip Coax/UTP Cable Stripper

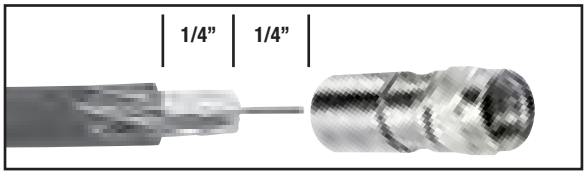


- Strips UTP, RG-59 and RG-6 coax cable
- Provides a 6.4 mm / 1/4 in. (minimum) x 6.4 mm / 1/4 in. strip on coax
- Spare cartridge compartment provided
- Push-on ring for easy connector termination

Description	Cat. No.
Coax/UTP Cable Stripper	**45-603**

Correct Coax Strip Procedure

6.4 mm (1/4 in.) x 6.4 mm (1/4 in.) standard strip.



- Correct strip length settings will leave 6.4 mm (1/4") of the centre conductor exposed and 6.4 mm (1/4") of the braiding (shield) exposed.
- After stripping, make sure the tip of the centre conductor is straight and not bent. Straighten the conductor if necessary.

Fold back the outer layer of braiding (shield) against the cable jacket.

Keep the braid strands as straight and as close to the jacket as possible.

- Note: For Quad Shield cables (with four layers; outer braid, outer foil, inner braid, inner foil), first fold back the outer braiding. Use the 45-074 to score and remove the exposed 6.4 mm (1/4") of outer foil. Remove outer foil and fold back inner braiding.

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